

Other hazards
Not available



SAFETY DATA SHEET

1. IDENTIFICATION

Preparation Date: 12/27/2016 Revision date 4/9/2019 Revision Number: G2

Product identifier Product code: C1345 **Product Name:** COPPER METAL, LIGHT, TURNINGS Other means of identification No information available Synonyms: CAS #: 7440-50-8 RTECS# GL5325000 Not available CI#: Recommended use of the chemical and restrictions on use Recommended use: No information available. No information available Uses advised against Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 Order Online At: https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Emergency telephone number Tom Tyner (USA - West Coast) Contact Person: Ibad Tirmiz (USA - East Coast) **Contact Person:** 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

Product code: C1345 Product name: COPPER METAL, Page 1/11

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Copper Metal	7440-50-8	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

Ingestion may cause nausea, vomiting, and diarrhea

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products If it is involved in a fire the following can be released:.

copper oxides.

Specific hazards No information available.

Special Protective Actions for Firefighters

Product code: C1345 Product name: COPPER METAL, Page 2/11

Specific Methods: No information available

Special Protective Equipment for Firefighters: 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 procedures

Personal Precautions: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep 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/m³ TWA fume	None

Canada

Product code: C1345 Product name: COPPER METAL, Page 3/11

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

Australia and Mexico

Component	CAS No	Australia	Mexico
Copper Metal	7440-50-8	1 mg/m ³ TWA	0.2 mg/m ³ TWA
		0.2 mg/m ³ 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:Appearance:Color:SolidMetal.Reddish.

Odor: Taste Formula

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 (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 1083°C/1981.4°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

2595°C/4703°F No information available No information available

Specific gravity:

Product code: C1345 Product name: COPPER METAL, Page 4/11

8.94 PH Vapor pressure @ 20°C (kPa):

No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity

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

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

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> 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	7440-50-8

Product code: C1345 Product name: COPPER METAL, Page 5 / 11 LIGHT, TURNINGS

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

Product code: C1345

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 by mechanical

action. Handling copper wire copper metal shot is not likely to cause skin irritation.

Eye Contact: Granular copper or copper turnings, or metal shot do not create dust during

handling and will not cause eye irritation by mechanical action from dust formation. These forms of copper are only likely to cause irritation, uveitis, abscess or serious injury if a particle (piece) is lodged in the eye. Handling copper wire or foil will not

cause eye irritation.

Inhalation It is not an inhalation hazard or will not cause respiratory tract irritation since the

copper is not in powder form and will not create dust when handled.

Ingestion Ingestion may cause nausea, vomiting, diarrhea. It may affect the kidneys and

liver.

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. Chronic copper

poisoning from exposure to elemental copper is rare and has generally not been described in humans, except in individuals with Wilson disease, in which progressive copper toxicity results from hereditary metabolic disorder involving

Page 6/11

progressive copper toxicity results from herealtary metabolic disorder involving

Product name: COPPER METAL, LIGHT, TURNINGS

deficiency in the copper-binding and transport protein ceruloplasmin.

No information available. Sensitization:

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
C	opper 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)

No data is available Reproductive toxicity

Reproductive Effects: No information available **Developmental Effects:** No information available **Teratogenic Effects:** No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic environment. **Ecotoxicity effects:**

Copper Metal - 7440-50-8

Algae/aquatic plants 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, **Fish**

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) Crustacea

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil

No information available Other adverse effects No information available.

Product code: C1345 Product name: COPPER METAL, Page 7/11

13. DISPOSAL CONSIDERATIONS

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

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

DOT RQ (lbs):

No data available

No information available

Special Provisions
Symbol(s):
No Information available
No information available
No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Product code: C1345 Product name: COPPER METAL, Page 8/11

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
No information available
No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
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)

Product code: C1345 Product name: COPPER METAL, Page 9 / 11
LIGHT, TURNINGS

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 8(d) -Health and Safety Reporting
Copper Metal	\ /	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

Component CAS	AS No		Canada (NDSL)
Copper Metal 744	140-50-8	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances	
Copper Metal	7440-50-8	Not listed	
Component		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)

Product code: C1345 Product name: COPPER METAL, LIGHT, TURNINGS Page 10 / 11

7440-50-8	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

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

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

Product code: C1345