According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.15.2018

# **Copper Shot**

#### **SECTION 1: Identification**

#### Product identifier

Product name: Copper Shot Product code: SH5400

# Recommended use of the product and restriction on use

Relevant identified uses: Laboratory chemicals Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# Emergency telephone number: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

#### SECTION 2: Hazard(s) identification

## **GHS classification:**

Flammable solids, category 1 Acute toxicity (oral), category 4 Skin irritation, category 2 Eye irritation, category 2A Acute aquatic hazard, category 1 Chronic aquatic hazard, category 3

#### Label elements

#### Hazard pictograms:



#### Signal word: Danger

#### **Hazard statements:**

- H228 Flammable solid.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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## **Copper Shot**

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands and skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P370+P378 In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists get medical advice/attention

P391 Collect spillage

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

# Hazards not otherwise classified: None

# **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7440-50-8	Copper	100

# Additional Information: None

# **SECTION 4: First aid measures**

# Description of first aid measures

# General notes:

Not determined or not applicable.

# After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

# After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Wash affected area with soap and water Seek medical attention if symptoms develop or persist

# After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention Remove contact lens(es) if able to do so during rinsing Seek medical attention if irritation persists or if concerned

# After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

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# **Copper Shot**

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell Do not induce vomiting

Rinse mouth and then drink plenty of water

## Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### **Delayed symptoms and effects:**

Not determined or not applicable.

#### Immediate medical attention and special treatment

# Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

#### **SECTION 5: Firefighting measures**

## **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion Heating causes a rise in pressure, risk of bursting and combustion

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing Sweep or scoop up solid material while minimizing dust generation Dispose of contents / container in accordance with local regulations

#### **Reference to other sections:**

Not determined or not applicable.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Use only with adequate ventilation.

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# **Copper Shot**

Avoid breathing dust. Do not eat, drink, smoke or use personal products when handling chemical substances. Conditions for safe storage, including any incompatibilities: Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

# **Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Copper	7440-50-8	OSHA PEL 1 mg/m3, as Cu (dusts and mists)
	Copper	7440-50-8	OSHA PEL 0.1 mg/m3, as Cu (fume)
ACGIH	Copper	7440-50-8	ACGIH TLV 1 mg/m3, as Cu, (dusts and mists)
	Copper	7440-50-8	ACGIH TLV 0.1 mg/m3, as Cu,(fume)
NIOSH	Copper	7440-50-8	NIOSH IDLH 100 mg/m3, as Cu (fume)

# **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

# Personal protection equipment

# Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

## **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

# **SECTION 9: Physical and chemical properties**

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# **Copper Shot**

Information on basic physical and chemical properties

1
Red to brown solid
Odorless
Not determined or not available.
Not determined or not available.
1083°C / 1981.4°F
2595°C / 4703°F
Not determined or not available.
8.94 g/cm <sup>3</sup> (Water = 1)
Not determined or not available.
Insoluble.
Not determined or not available.

# Other information

# SECTION 10: Stability and reactivity

#### **Reactivity:**

Stable at room temperature in closed containers under normal storage and handling conditions.

# **Chemical stability:**

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

# Conditions to avoid:

Incompatible Materials. Dust formation. Moisture. Exposure to air.

#### Incompatible materials:

Liquid copper explodes on contact with water. Reacts violently with ammonium nitrate, bromates, iodates, chlorates, ethylene oxide, hydrazoic acid, potassium oxide, dimethyl sulfoxide. Page 3 of 4. CU4500 +. Trichloroacetic acid, hydrogen peroxide, sodium peroxide, sodium azide, sulfuric acid, hydrogen sulfide + air, and lead azide. Ignites on contact with chlorine, fluorine (above 121C), chlorine trifluoride, and hydrazinium nitrate (above 70C). Incompatible with 1-bromo-2-propyne, potassium dioxide, and acetylenic compounds.

# Hazardous decomposition products:

Oxides of copper.

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#### **Copper Shot**

## **SECTION 11: Toxicological information**

#### Acute toxicity

Assessment: Harmful if swallowed

Product data: No data available.

# Substance data:

Name	Route	Result
Copper	oral	LD50 Rat: 300 - 2,500 mg/kg
	inhalation	LC50 Rat (4 h): 5.11 mg/L air

#### Skin corrosion/irritation

Assessment: Causes skin irritation

Product data: No data available.

Substance data: No data available.

#### Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data: No data available.

#### Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

# Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

#### Product data: No data available.

Substance data: No data available.

# Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available.

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# **Copper Shot**

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

# **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

Assessment: Very toxic to aquatic life **Product data:** No data available.

## Substance data:

Name	Result
Copper	LC50 (48 h): 5.9 - 30.2 μg/L
	EC50 (48 h): 1 - 1,213 μg/L
	EC50 (72 h): 16.5 - 987 μg/L

## Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

## Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

#### **Bioaccumulative potential**

Product data: No data available.

Substance data: No data available.

#### Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

# **SECTION 14: Transport information**

# United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN3089	
UN proper shipping name	Metal powder, flammable, n.o.s.	
UN transport hazard class(es)	4.1 (9)	
Packing group	П	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

# International Maritime Dangerous Goods (IMDG)

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Listed

# **Copper Shot**

UN number	UN3089	
UN proper shipping name	Metal powder, flammable, n.o.s.	
UN transport hazard class(es)	4.1 (9)	
Packing group	П	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN3089	
UN proper shipping name	Metal powder, flammable, n.o.s.	
UN transport hazard class(es)	4.1 (9)	
Packing group	II	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

# **SECTION 15: Regulatory information**

#### **United States regulations**

Inventory listing (TSCA):

7440-50-8 Copper

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

# SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

# SARA Section 313 toxic chemicals:

	7440-50-8	Copper		Listed
CERCLA:				
1				

	7440-50-8	Copper	Listed	5,000
RC	RA: Not determined.			

Section 112(r) of the Clean Air Act (CAA): Not determined.

# Massachusetts Right to Know:

7440-50-8	Copper	Listed		
New Jersey Right to Know:				
7440-50-8	Copper	Listed		
New York Right to Know:				
7440-50-8	Copper	Listed		
Pennsylvania Right to Know:				
7440-50-8	Copper	Listed		
	w Jersey Right to K 7440-50-8 w York Right to Kno 7440-50-8 msylvania Right to	w Jersey Right to Know:   7440-50-8 Copper   w York Right to Know:   7440-50-8 Copper   msylvania Right to Know:		

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# **Copper Shot**

California Proposition 65: Not determined.

#### **SECTION 16: Other information**

# Abbreviations and Acronyms: None

# **Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

## NFPA: 2-2-0

#### HMIS: 2-2-0-X

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## **End of Safety Data Sheet**

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