

SAFETY DATA SHEET

GB/T 16483-2008, GB/T 17519-2013

Version 1

Product name Bronze Powder

Issue date 15-Feb-2019

Revision date 15-Feb-2019

SECTION 1: Chemical product and company identification

Product name

Chinese chemical name 铜金粉
English chemical name Bronze Powder

Company identification

Company name Fuzhou Xuqi Science And Technology Co., Ltd.
Address Duniyuanzhou Industrial Zone, Ganzhe Town, Minhou County, Fuzhou City, China
Postal code 350100
Phone +86-591-22078511
FAX +86-591-22078522
E-mail info@fj-jingxin.com

Emergency Telephone

0512-65433837

Recommended use of the chemical and restrictions on use

Recommended use Mainly used in printing, ink, coating, handicrafts and so on
Uses advised against No information available

SECTION 2: Hazards identification

Emergency overview

No information available.

GHS classification

Not classified

Label elements

Symbols/Pictograms None
Signal word None
Hazard statements Not applicable
Precautionary statements
Prevention No information available.
Response No information available.
Storage No information available.
Disposal No information available.

Physical hazards

No information available.

Health hazards

No information available.

Environmental hazards

No information available.

Other hazards

No information available.

SECTION 3: Composition/information on ingredients

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Description Alloy

Chemical name	CAS No	Weight-%
Copper	7440-50-8	95
Zinc	7440-66-6	5

SECTION 4: First aid measures

Description of first aid measures

Inhalation	There is no risk of inhalation at normal condition. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Product does no harm to skin at normal condition. In the case of skin irritation or allergic reactions see a physician.
Eye contact	Not an expected route of exposure. Eye contact may cause mechanical damage.
Ingestion	Not an expected route of exposure. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

No information available.

Self-protection of the first aider

Use personal protective equipment as required.

Note to physicians

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

Special hazard

No information available.

Protective equipment and precautions for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes. Avoid generation of dust. Do not breathe dust.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Pick up mechanically, and place into an appropriate container for disposal.

Prevention of secondary hazards

Avoid generation of dust. Remove all sources of ignition.

SECTION 7: Handling and storage**Handling**

Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes. Avoid generation of dust. Do not breathe dust.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

SECTION 8: Exposure controls/personal protection**Exposure limits**

Chemical name	China	Japan	Korea	Australia	Taiwan
Copper (CAS #: 7440-50-8)	TWA: 1 mg/m ³ dust TWA: 0.2 mg/m ³ fume STEL: 2.5 mg/m ³ dust STEL: 0.6 mg/m ³ fume	-	STEL: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	1 mg/m ³ 0.2 mg/m ³	-

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Germany	Ontario TWA
Copper (CAS #: 7440-50-8)	TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ dust, fume and mist IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist	-	-

Chemical name	Austria	Belgium	European Union	Denmark	Latvia
Copper (CAS #: 7440-50-8)	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-	-	TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1 mg/m ³

Chemical name	France	Finland	Italy	Poland	Spain
Copper (CAS #: 7440-50-8)	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-	-	-

Chemical name	Norway	Portugal	Switzerland	Netherlands	United Kingdom
Copper (CAS #: 7440-50-8)	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.1 mg/m ³ STEL: 1 mg/m ³	-	-	TWA: 0.1 mg/m ³	-

Engineering controls

Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

Personal protective equipment

Respiratory protection	Ensure adequate ventilation, especially in confined areas.
Eye/face protection	Avoid contact with eyes
Skin and body protection	No special technical protective measures are necessary
Hand protection	Wear protective gloves

SECTION 9: Physical and chemical properties

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Appearance	Solid
Color	Golden
Odor	Odorless
Odor threshold	Not determined
pH	Not determined
Melting point/freezing point	1083 °C (Cu)
Boiling point / boiling range	2595 °C (Cu)
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Explosive limits	Not applicable
Vapor pressure	Not determined
Vapor density	Not applicable
Density	8.94 g/cm ³ (Cu)
Relative density	Not determined
Water solubility	Insoluble in water
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not applicable
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

SECTION 10: Stability and reactivity

Stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Incompatible materials.

Incompatible materials

Hot nitric acid.

Hazardous decomposition products

Metallic oxide and irritating fumes may develop.

SECTION 11: Toxicological information

Acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper (CAS #: 7440-50-8)	> 2500 mg/kg bw(rat)	> 2000 mg/kg bw(rat)	≈1.03 mg/L/4 h(rat)

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

No eye irritation.

Sensitization

No sensitization responses were observed.

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Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Ecotoxicity

Chemical name	Algae/Aquatic plants EC50	Fish LC50	Crustacea EC50
Copper (CAS #: 7440-50-8)	-	1.25: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-
Zinc (CAS #: 7440-66-6)	-	LC50 - <i>Daphnia magna</i> (Water flea) - 0.068 mg/l - 48 h	LC50 - <i>Daphnia magna</i> (Water flea) - 0.068 mg/l - 48 h

Persistence and degradability

No information available.

Bioaccumulative potential

Chemical name	Bioconcentration factor (BCF)
Zinc (CAS #: 7440-66-6)	466

Mobility in soil

No information available.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products
Contaminated packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

UN number Not regulated
UN proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated

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Environmental hazards

Non-marine pollutant

Special precautions

No information available

Transport in bulk according to Annex II of MARPOL Not applicable
and the IBC Code

SECTION 15: Regulatory information

China

Component	IECSC	List of Dangerous Goods	China - List of Dangerous Chemicals
Copper 7440-50-8 (95)	X	-	-
Zinc 7440-66-6 (5)	X	Present	Present (dust); Present (powder); Present (ashes)

International inventories

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	KECL	PICCS	TSCA
Copper 7440-50-8 (95)	X	X	X	Exempt	X	X	X
Zinc 7440-66-6 (5)	X	X	X	Exempt	X	X	X

"X" Listed

"-" Not Listed

SECTION 16: Other information

Revision note

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Revision note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (Time Weighted Average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
IECSC - Chinese Inventory of Existing Chemical Substances
EINECS/ELINCS - European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
KECL - Korea Existing Chemicals List
NZIoC - New Zealand Inventory of Chemicals
PICCS - The Philippine Inventory of Chemicals and Chemical Substances
AICS - The Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>
IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)
HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
ICSC: <http://www.ilo.org/dyn/icsc/showcard.home>
eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
NITE-CHIRP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhlInput

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Disclaimer

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