



S260101172E



Safety Data Sheet

(SDS)

Creation Date:2026/01/01

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Version:2026

Prepared according to UN GHS (the 10th revised edition)

Product Name:COPPER OXIDE POWDER

Model:/

Company Name:GUIXI ZHONGAN COPPER CO.,LTD

Written by Shanghai Chemical Identification Service Center



1、 Identification of the chemical and supplier

1.1 Product identifier

Product Name:COPPER OXIDE POWDER

Product Model:/

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:Please consult manufacturer.

Uses advised against:Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company:GUIXI ZHONGAN COPPER CO.,LTD

Address of the company: SOUTH OF NO.18 ROAD & WEST OF NO.9 ROAD OF COPPER INDUSTRY RECYCLING BASE,GUIXI ECONOMIC DEVELOPEMENT ZONE,YINGTAN CITY,JIANGXI PROVINCE

Telephone number:+86 (0) 701-3319919

Fax number:/

Email address:1052395337@qq.com

1.4 Emergency phone number:**+86 (0) 13906865209**

2、 Hazards identification

2.1 Hazard classification according to GHS:

Hazardous to aquatic environment - acute hazard Category 1

Harm to aquatic environment - long-term harm Category 1

2.2 Label elements



Hazard pictograms:

Signal word:**Warning**

2.3 Hazard statements:

H400 Highly toxic to aquatic organisms.

H410 It is highly toxic to aquatic organisms and has long-lasting effects.

2.4 Precautionary statements

2.4.1 Prevention

P273 Avoid releasing into the environment.

2.4.2 Response

P391 Collect spills.

2.4.3 Storage

None.

2.4.4 Disposal

P501 Dispose of contents/containers in accordance with local/regional/national/international regulations.

2.5 Hazard description

2.5.1 Physical and chemical hazards

This product is normally used without hazard.



2.5.2 Health hazards

None.

2.5.3 Environmental hazards

Please refer to 12th chapter of SDS.

3、Composition/information on ingredients

Substance ☒ Preperation ☐

Component	CAS No.	Concentration (weight%)
COPPER OXIDE	1317-38-0	≥99

4、First aid measures

4.1 Description of first aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Skin contact: Rinse with clean water, Ensure that you understand the relevant personal protection knowledge, Take precautions to protect themselves.

Eye contact: Wash with running water or saline, Seek medical attention if necessary.

Inhalation: Move to fresh air, Keep the airway open, Seek medical attention if you feel unwell.

Intake: Clean up the mouth, induce vomiting, seek medical attention.

Protecting of first-aiders: Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2 Indication of any immediate medical attention and special treatment needed

- 1、Treat symptomatically.
- 2、Symptoms may be delayed.

5、Firefighting measures

5.1 Extinguishing media

- 1、**Suitable extinguishing media:** Water, alcohol-resistant foam, dry powder, carbon dioxide.
- 2、**Unsuitable extinguishing media:** No data available

5.2 Specific hazards arising from the substance or mixture

- 1、No data available.

5.3 Advice for firefighters

- 1、As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2、Fight fire from a safe distance, with adequate cover.
- 3、Prevent fire extinguishing water from contaminating surface water or the ground water system.

6、Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- 1、Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 2、Ensure adequate ventilation. Remove all sources of ignition.
- 3、Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 4、Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

6.2 Environmental precautions

- 1、Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

- 1、Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 2、Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7、 Handling and storage

7.1 Precautions for handling

- 1、Closed operation, full ventilation.
- 2、Operators must be specially trained to strictly abide by the operating procedures.
- 3、It is recommended that operators wear self-priming filter dust masks and chemical safety glasses.
- 4、Keep away from fire, heat, and smoking in the workplace.
- 5、Use explosion-proof ventilation systems and equipment.

7.2 Precautions for storage

- 1、Store in a cool, ventilated warehouse.
- 2、Keep away from fire and heat.
- 3、It should be stored separately from oxidants, reducing agents, halogens, etc., and should not be mixed.

8、 Exposure controls/personal protection

8.1 Control Parameters

8.1.1 Occupational exposure limits

Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
All components	USA - OSHA	Unspecified	Unspecified	Unspecified	Unspecified
	South Korea	Unspecified	Unspecified	Unspecified	Unspecified
	Ireland	Unspecified	Unspecified	Unspecified	Unspecified
	Germany(AGS)	Unspecified	Unspecified	Unspecified	Unspecified
	Denmark	Unspecified	Unspecified	Unspecified	Unspecified
	Australia	Unspecified	Unspecified	Unspecified	Unspecified

8.1.2 Biological limit values

Biological limit values: No information available

8.1.3 Monitoring methods

- 1、EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2、BZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

8.2 Engineering controls

- 1、Ensure adequate ventilation, especially in confined areas.
- 2、Ensure that eyewash stations and safety showers are close to the workstation location.
- 3、Use explosion-proof electrical/ventilating/lighting/equipment.
- 4、Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement:



Eye protection:Wear ordinary goggles.

Hand protection:Wear ordinary protective gloves.

Respiratory protection:Wear ordinary protective masks.

Skin and body protection:Wear ordinary protective clothing.

Other protection:Smoking, eating and drinking are forbidden on the job site. Maintain good hygiene habits.

9、Physical and chemical properties

Appearance:Black Powder.

Odor:Weak odor.

PH value:No data available.

Melting point/freezing point (°C) :No data available.

Initial boiling point and boiling range (°C) :No data available.

Flash point (closed cup, °C) :No data available.

Explosion upper/lower limit [% (v/v)]:No data available.

Vapor pressure (kPa) :No data available.

Vapor density (air = 1) :No data available.

Relative density (water = 1) :No data available.

Solubility:No data available.

N-Octanol/water partition coefficient:No data available.

Auto-ignition temperature (°C) :No data available.

Decomposition temperature (°C) :No data available.

Odor threshold:No data available.

Evaporation rate:No data available.

Flammability (Solid or gas) :Non-flammable.

Others:No data available.

10、Stability and Reactivity

Stability:Stable under the correct conditions of use and storage.

Hazardous reactions:No data available.

Conditions to avoid:Electrostatic discharge, heat, humidity, etc.

Incompatible materials:Strong oxides, strong acids, strong bases.

Hazardous decomposition products:Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11、Toxicological information

11.1 Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (Transcutaneous)	LC ₅₀ (inhalation, 4h)
All components	Not available	Not available	Not available

11.2 Carcinogenicity

Component	IARC	NTP
All components	Not Listed	Not Listed

11.3 Others

Comp onent	Corro sive skin/ irritat ion	Serio us eye dama ge/irri tation	Skin sensiti zation	Respi ratory sensiti zation	Repro ductiv e toxicit y	Specif ic target organ toxicit y - single expos ure	Specif ic target organ toxicit y - repeat ed expos ure	Aspir ation hazar d	Germ cell muta genici ty	Repro ductiv e toxicit y
All comp onents	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble	Not availa ble

12. Ecological information

12.1 Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
All components	Not available	Not available	Not available

12.2 Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
All components	Not available	Not available	Not available

12.3 Others

Component	Persistence and degradability	Bioaccumulation or bioaccumulation	Soil mobility	Evaluation of PBT and vPvB results
All components	Not available	Not available	Not available	Not available

13. Disposal considerations

Disposal considerations:Recycle as much as possible.

Waste chemicals:Contaminated packaging:Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling.

Disposal considerations:Refer to the "Disposal" section.

14. Transportation information

Suggestion according to IATA DGR(67th Edition)

Suggestion according to IMO IMDG Code(2024 Edition)

United Nations Dangerous Goods Number (UN No.):UN 3077



UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.
S(COPPER OXIDE)

UN Risk Classification:9

Packing Category:III



Packaging label:

Marine Pollutants (Yes/No):Yes

Packing method:Pack according to the manufacturer's recommendations.

Transportation Note:No data available.

15、Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AICS
Copper Oxide	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

【EINECS】European Inventory of Existing Commercial Chemical Substances

【TSCA】United States Toxic Substances Control Act Inventory

【DSL】Canadian Domestic Substances List

【IECSC】China Inventory of Existing Chemical Substances

【NZIoC】New Zealand Inventory of Chemicals

【PICCS】Philippines Inventory of Chemicals and Chemical Substances

【KECL】Korea Existing Chemical List

【AICS】Australia Inventory of Chemical Substances

16、Others

16.1 Reference:

【1】IPCS:The International Chemical Safety Cards (ICSC),website:<http://www.ilo.org>

【2】IARC,website:<http://www.iarc.fr>

【3】OECD:The Global Portal to Information on Chemical Substances,website:<http://www.echemportal.org>

【4】CAMEO Chemicals,website:<http://cameochemicals.noaa.gov>

【5】NLM:ChemIDplus,website:<http://chem.sis.nlm.nih.gov>

【6】EPA:Integrated Risk Information System,website:<http://cfpub.epa.gov>

【7】U.S. Department of Transportation:ERG,website:<http://www.phmsa.dot.gov>

【8】Germany GESTIS-database on hazard substance,website:<http://gestis-en.itrust.de>

16.2 Others:

1、Abbreviations and acronyms

CAS-Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL-Derived No Effect Level

RPE-Respiratory Protective Equipment

LC50-Lethal Concentration 50%

NOEC-No Observed Effect Concentration



PBT-Persistent, Bioaccumulative, Toxic

BCF-Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR-Carcinogens, mutagens or substances toxic to reproduction

PC-TWA -Time Weighted Average

IARC-International Agency for Research on Cancer

PNEC-Predicted No Effect Concentration

LD50-Lethal Dose 50%

EC50-Effective Concentration 50%

POW-Partition coefficient Octanol:Water

vPvB-very Persistent,very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

2、Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 10th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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SDS Effective Date:2026/01/01 (Valid in this year)

