

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: COPPER (II) OXIDE WIRE
CAS number: 1317-38-0
Product code: A67283
Synonyms: COPPER OXIDE CUPRIC OXIDE

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.3. Details of the supplier of the safety data sheet**

Company name: Philip Harris Ltd
2 Gregory Street
Hyde
Cheshire
SK14 4HR
United Kingdom
Tel: +44 (0)845 1200 506
Fax: +44 (0)161 367 2140
Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Acute Tox. 4: H302; Aquatic Chronic 1: H410

Classification under CHIP: Xn: R22; N: R50/53

Most important adverse effects: Harmful if swallowed. Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Label elements under CLP:**

Hazard statements: H302: Harmful if swallowed.
H410: Very toxic to aquatic life with long lasting effects.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark
GHS09: Environmental



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Precautionary statements: P273: Avoid release to the environment.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: COPPER (II) OXIDE WIRE

Contains: Molecular Formula: CuO

Molecular Weight: 79.55 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a Doctor

Eye contact: Bathe the eye with running water for 15 minutes. Protect uninjured eye. Remove contact lenses, if present and easy to do. Consult a doctor.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting. Give nothing to eat or drink. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Immediately call the POISON CENTRE or a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire may be liberated: Carbon Dioxide (CO₂) Carbon monoxide Sulphur oxides.

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5.3. Advice for fire-fighters

Advice for fire-fighters: DO NOT fight fire when fire reaches explosives. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment. Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes & clothes.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Spilled product must never be returned to the original container for recycling. Take up carefully when dry. Avoid generation of dust. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Storage temperature 15-25°C Tightly Closed. Dry. Store in cool, well ventilated area.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Technical measures and the application of suitable work processes have priority over

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personal protection equipment. If handle uncovered, arrangements with local exhaust ventilation have to be used.

Respiratory protection: Respiration protection necessary at aerosol or mist formation. Filtering half face mask (DIN EN 149)

Hand protection: For short term hand contact use nitrile rubber gloves, 0.12mm thick and with a break through time of 480 mins. For long term hand contact wear nitrile rubber gloves, 0.38mm thick with a breakthrough time of 480mins.

Eye protection: Safety glasses with side-shields.

Skin protection: Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: Black

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: Insoluble at 20°C.

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Boiling point/range°C: 2000°C(1013 hPa)

Melting point/range°C: 1326°C

Relative density: 4.9 g/cm³ (20°C)

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available

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10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code number: 06 04 99

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NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H302: Harmful if swallowed.

H410: Very toxic to aquatic life with long lasting effects.

R22: Harmful if swallowed.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.