



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Copper (II) Oxide - Black

Section 1: Identification of the substance/ mixture and of the company/ undertaking.

1.1 Product identifier

| | |
|--------------|---------------------------|
| Product name | Copper (II) Oxide - Black |
| Other names | Cupric Oxide |
| CAS No. | 1317-38-0 |
| Index No. | |
| EC No. | 215-269-1 |
| Product code | 0001105 |

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

| | |
|-------------|---|
| Product use | Laboratory chemicals, manufacture of substances, Scientific R&D |
|-------------|---|

1.3 Details of the supplier of the safety data sheet


| | | |
|---------------------|---|---------------------|
| Company | Breckland Scientific Supplies Ltd | |
| Address | Antom Court, Tollgate Drive, Stafford, ST16 3AF | |
| Web | www.brecklandscientific.co.uk | |
| Telephone | 01785 227 227 | |
| Fax | 01785 227 444 | |
| Email | msds@brecklandscientific.co.uk | |
| Emergency telephone | 08:30-17:00 24hrs | 01785 227227 112 |

Section 2: Hazards identification

2.1 Classification of the substance or mixture

| | |
|-------------------------------------|--|
| 2.1.1 Classification - 67/548/EEC | Xn; R22 Acute Tox. 4 Harmful N; R50-53 Aquatic Acute 1 Aquatic Chronic 1 Dangerous for the environment |
| 2.1.2 Classification – EC 1272/2008 | H302 H410 |

2.2 Label elements

| | |
|-------------------------|--|
| Hazard Pictograms |  |
| Signal word | Warning |
| Hazard statement | H302: Harmful if swallowed. H410: Very toxic to aquatic life with long lasting effects. |
| Precautionary statement | P273: Avoid release to the environment. P501: Dispose of contents/container to a licensed disposal company. |

Section 3: Composition/information on ingredients

3.1 Substances

67/548/EEC/1999/45/EC

| Chemical name | Index No. | CAS No. | EINECS No. | Classification | Conc |
|---------------------------|-----------|-----------|------------|----------------|------|
| Copper (II) Oxide - Black | | 1317-38-0 | 215-269-1 | H302 H410 | 96 |

EC 1272/2008

| Chemical name | Index No. | CAS No. | EINECS No. | Classification | Conc |
|---------------------------|-----------|-----------|------------|---|------|
| Copper (II) Oxide - Black | | 1317-38-0 | 215-269-1 | Xn; R22 Acute Tox. 4 Harmful N; R50-53 Aquatic Acute 1 Aquatic Chronic 1 Dangerous for the environment | 96 |

Section 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------|--|
| Inhalation: | Move the exposed person to fresh air. If breathing stops, provide artificial respiration. |
| Eye contact: | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. |
| Skin contact: | Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist. |
| Ingestion: | DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention. |

| | |
|----------------------|--|
| General information: | If you feel unwell, seek medical advice (show the label where possible). |
|----------------------|--|

Section 5: Firefighting measures

| | |
|--|--|
| 5.1 Extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment |
| 5.2 Special hazards arising from substances or mixture | No data available |
| 5.3 Advice for firefighters | Wear suitable respiratory equipment when necessary |

Section 6: Accidental release measures

| | |
|--|---|
| 6.1 Personal precaution, protective equipment and emergency procedures | Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. |
| 6.2 Environmental precautions | Prevent further spillage if safe. Do not allow product to enter drains |
| 6.3 Methods and materials for containments and cleaning up | Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal. |

Section 7: Handling and storage

| | |
|--|--|
| 7.1 Precautions for safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area. |
| 7.2 Conditions for safe storage including any incompatibilities. | Store in a cool, dry area. Keep container tightly closed. |

Section 8: Exposure controls/ personal protection

8.1 Control parameters

8.1.1 Exposure limit values

| | | |
|--|---------------------|--------------------------------|
| Copper (II) Oxide - Black CAS No: 1317-38-0 | Long Term (8hr TWA) | Short term (15min period STEL) |
| ppm | N/A | N/A |
| Mg/m ³ | N/A | N/A |

8.2 Exposure controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area. |
| Eye/ face protection | Approved safety glasses. Face shield where appropriate. |
| Skin/ hand protection | Wear suitable protective clothing and gloves. |
| Respiratory protection | Where risk assessment shows it is necessary, use a dust mask type or breathing apparatus. |

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------|-------------------|
| State: | Solid |
| Colour: | Black |
| Melting point °C: | 1336 |
| Boiling point °C: | No data available |
| Relative density g/cm ³ : | 6.32 |
| Chemical formula: | CuO |
| Molecular weight g/mol: | 79.55 |

Section 10: Stability and reactivity

| | |
|---|--------------------------------|
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under normal conditions |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | No data available |
| 10.5 Incompatible materials | No data available |
| 10.6 Hazardous decomposition products | No data available |

Section 11: Toxicological information

11.1 Information on toxicological effects:

| | |
|------------------------|-------------------|
| Acute toxicity | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |

11.4 Toxicological information

| | |
|---------------------------|---------------------------|
| Copper (II) Oxide - Black | Oral Rat LD50 mg/kg: 2500 |
|---------------------------|---------------------------|

Section 12: Ecological information**12.1 Toxicity**

Toxicity to daphnia and other aquatic vertebrates

| | |
|---------------------------|---|
| Copper (II) Oxide - Black | EC50 Daphnia magna: 0.19-0.21 (Water flea) mg/l - 48hr |
|---------------------------|---|

Section 13: Disposal considerations

| | |
|---------------------|--|
| General information | Dispose of in compliance with all local and national regulations. |
| Disposal methods | Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point |

Section 14: Transport information

ARD/RID

14.1. UN Number:

ADR/RID:

IMDG:

IATA:

14.2 UN Proper shipping name: Copper (II) Oxide - Black

14.3. Transport hazard class(es): N/A

14.4. Packing group:

14.5 Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Section 15: Regulatory information

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

| | |
|-------------|--|
| Regulations | Labelling according to Regulation (EC) No 1272/2008. |
|-------------|--|

Section 16: Other information

16.1: Other information

Text of risk phrases in Section 3

Xn; R22 Acute Tox. 4 Harmful

Harmful if swallowed.

N; R50-53 Aquatic Acute 1

Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 1 Dangerous for
the environment

Text of hazard statements in Section 3

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

16.2 Further information

| | |
|------------------------|--|
| Further information | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. Breckland Scientific Supplies Limited will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment. |
|------------------------|--|