

**Section 1. Identification****1.1 Product Identifier** CHE5566SE

Product Name COPPER METAL POWDER (electrolytic) 250g.

CAS Number 7440-50-8

REACH Registration No Not applicable

Molecular Formula  $Cu = 63.55$ **1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** SLS Select EducationWilford Industrial Estate  
Ruddington Lane  
Wilford  
Nottingham  
NG11 7EP  
UNITED KINGDOM

Phone 0115 9821111

Fax 0115 9825275

Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Hazard to aquatic environment, category 1 (Aquatic Acute 1). Hazard to aquatic environment, category 1 (Aquatic Chronic 1).

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word Warning

Hazard Pictograms



Hazard Statements Very toxic to aquatic life with long lasting effects.

Precautionary Statements Avoid release to the environment. Collect spillage.

**Section 3. Composition**

### 3.1 Substances

| Component | CAS No.   | EEC No. | Conc w/w | CLP Classification (1272/2008/CE)  |
|-----------|-----------|---------|----------|------------------------------------|
| Copper    | 7440-50-8 |         | > 99.0 % | Aquatic Acute 1, Aquatic Chronic 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|            |   |
|------------|---|
| Eyes       | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.                   |
| Skin       | Wash off skin thoroughly with water.  |
| Inhalation | Remove from exposure.   |
| Ingestion  | Not normally considered as an industrial hazard. If large quantities are ingested seek medical attention. |

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |  |
|---------------------|--|
| Extinguishing Media | Use dry sand or special metal fire extinguishing powder. |
| Unsuitable Media    | Do not use high pressure extinguishers or water jets.    |

### 5.2 Special hazards arising from the substance or mixture

|         |  |
|---------|--|
| Hazards | Does not constitute a fire hazard but will burn if involved in a fire. |
|---------|--|

### 5.3 Advice for firefighters

|                         |   |
|-------------------------|---|
| Advice for firefighters | Consider all other materials in the vicinity. |
|-------------------------|---|

## Section 6. Accidental Release Measures

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

|                     |                                       |
|---------------------|---------------------------------------|
| Personal Protection | Wear appropriate protective clothing. |
|---------------------|---------------------------------------|

### 6.2 Environmental precautions

|               |   |
|---------------|---|
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. |
|---------------|---|

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

|                |   |
|----------------|---|
| Major Spillage | Sweep up, place in a bag and hold for waste disposal. |
| Minor Spillage | Sweep up, place in a bag and hold for waste disposal. |

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

No specific precautions.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component | CAS No    | Concentration | Workplace Exposure Limits |   |                         |   |
|-----------|-----------|---------------|---------------------------|---|-------------------------|---|
|           |           |               | Long Term (8hr TWA)       |   | Short Term 15min period |   |
| Copper    | 7440-50-8 | >99%          | -                         | - | -                       | - |

### 8.2 Exposure controls

|                        |   |
|------------------------|---|
| Respiratory Protection | Use only in a chemical fume hood.   |
| Hand Protection        | Wear gloves.  |
| Eye Protection         | No specific hazard through eye contact although the wearing of safety glasses is advised. |
| Skin Protection        | Presents no significant hazard through skin contact.                                      |
| Special Hazards        | No special precautions required.  |

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |                                 |
|-----------------------|---------------------------------|
| Appearance            | Pale pink powder.               |
| Odour                 | No specific odour.              |
| pH                    | Not applicable                  |
| Boiling Point         | 2595°C                          |
| Melting Point         | 1080°C                          |
| Flash Point           | Not applicable                  |
| Upper Flammable Limit | Not applicable                  |
| Lower Flammable Limit | Not applicable                  |
| Auto Ignition         | Not applicable                  |
| Explosive Properties  | Can form explosive dust clouds. |
| Oxidising Properties  | No.                             |
| Vapour Pressure       | Not applicable                  |
| Relative Density      | 8.9000                          |
| Water Solubility      | Insoluble in water.             |

### 9.2 Other information

No data available.

## Section 10. Stability & 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                | Hot surfaces, naked flames or other sources of ignition.   |
| 10.5 Incompatible Materials             | Sulphuric acid. Bromine. Halogens and halogen compounds. Potassium. dioxide. Iodides. Chlorates. |
| 10.6 Hazardous Decomposition Products   | May produce hazardous fumes if involved in a fire.   |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|           |  |
|-----------|--|
| Eyes      | Presents no significant health hazard to the eyes. |
| Skin      | Presents no significant hazard by skin contact.    |
| LD50 Skin | Not available                                      |

|                      |  |
|----------------------|--|
| Ingestion            | Presents no significant hazard by ingestion.         |
| LD50 Oral            | Not available  |
| Inhalation           | Presents no significant health hazard by inhalation. |
| LD50 Inhalation      | Not available  |
| TCLo                 | Not available  |
| Carcinogenicity      | Not considered to be a carcinogen.                   |
| Mutagenicity         | Not considered to be a mutagen.                      |
| Reproductive Effects | None identified.                                     |

## Section 12. Ecological

|  |   |
|--|---|
| <b>12.1</b> Toxicity                         | Very toxic to aquatic life with long lasting effects. |
| LC50 Algal                                   | Not available   |
| LC50 Crustacea                               | Not available   |
| LC50 Fish                                    | Not available   |
| <b>12.2</b> Persistence and degradability    | No data available.                                    |
| <b>12.3</b> Bioaccumulative potential        | No data available.                                    |
| <b>12.4</b> Mobility in soil                 | No data available.                                    |
| <b>12.5</b> Results of PBT & vPvB assessment | Assessment not required.                              |
| <b>12.6</b> Other adverse effects            | None known at present.                                |

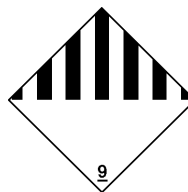
## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |                                      |
|------------------------|--------------------------------------|
| Disposal Methods       | Do not dispose of as domestic waste. |
| Contaminated Packaging | Wash out containers with water.      |

## Section 14. Transport Information

|  |   |
|--|---|
| <b>14.1</b> UN Number                    | 3077  |
| <b>14.2</b> Proper Shipping Name         | Environmentally Hazardous Substance, Solid, N.O.S. (Copper) |
| <b>14.3</b> Transport classes            |   |
| UN classification                        | 9   |
| Subsidiary Risk                          | None  |
| Transport category                       | 3   |
| ADR Hazard ID                            | 90  |
| Tunnel Restriction Code                  | E   |
| <b>14.4</b> Packing Group                | III   |
| <b>14.5</b> Environment hazards          | Marine pollutant.   |
| <b>14.6</b> Special precautions for user | No special precautions required.                            |
| <b>14.7</b> Transport in bulk            | Not transported in bulk.                                    |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

|                |  |
|----------------|--|
| Classification | Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1 |
| Signal word    | Warning  |

#### Hazard Pictograms



Hazard Statements      H410  
Very toxic to aquatic life with long lasting effects.

Precautionary Statements      P273, P391  
Avoid release to the environment. Collect spillage.

#### 15.2 Chemical safety assessment

Assessment not required.

### Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision date: 22 September 2014

Reviewed by chemist: 22 September 2014

Printed date: 03 July 2017

Copyright: 2017 SLS Select Education