

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

CHE1718

Product Name

COPPER (II) SULPHATE ANHYDROUS 250g.

CAS Number

7758-98-7

REACH Registration No

A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula

 $\text{CuSO}_4$  =159.60**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**

Scientific Laboratory Supplies

Unit 6, Foresters Avenue  
Fairham Business Park  
Fairham  
Nottingham  
NG11 2AF  
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**

Acute toxicity, category 4 (oral)

H302: Harmful if swallowed.

Skin corrosion/irritation, category 2

H315: Causes skin irritation.

Serious eye damage/irritation, category 2

H319: Causes serious eye irritation.

Hazard to aquatic environment, category 1

H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1

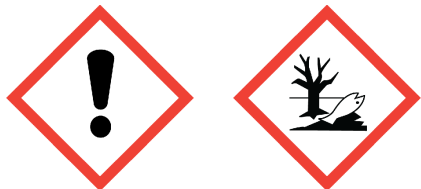
H410: Very toxic to aquatic life with long lasting effects.

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

Signal word

Warning

Hazard Pictograms



**Hazard Statements** Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. Very toxic to aquatic life with long lasting effects.

**Precautionary Statements** Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## Section 3. Composition

### 3.1 Substances

| Component | CAS No.   | EEC No. | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)  |
|-----------|-----------|---------|-----------------------|----------|------------------------------------|
| Copper    | 7440-50-8 |         | 01-2119480154-42-XXXX | 40%      | Aquatic Acute 1, Aquatic Chronic 3 |

## 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. If discomfort persists OBTAIN MEDICAL ATTENTION. |
| Skin                                 | Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use.                           |
| Inhalation                           | Remove from exposure.  |
| Ingestion                            | Wash out the patients mouth thoroughly with water. Induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.                                   |
| Personal protection for first aiders | Wear protective gloves / eye protection.   |

### 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 | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.   |

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

|         |   |
|---------|---|
| Hazards | May evolve toxic fumes if involved in a fire. |
|---------|---|

### 5.3 Advice for firefighters

|                         |  |
|-------------------------|--|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|--|

## Section 6. Accidental Release Measures

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

|                     |                       |
|---------------------|-----------------------|
| Personal Protection | Avoid breathing dust. |
|---------------------|-----------------------|

## 6.2 Environmental precautions

Environmental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.  
Minor Spillage Wash area down with copious amounts of water.

## 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

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  
Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

## 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 | 40%           | -                         | - | -                       | - |

Exposure data source(s) No occupational exposure data currently available.

## 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.  
Hand Protection Wear gloves.  
Eye Protection Use tightly fitting chemical splash proof glasses or goggles.  
Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.  
Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Pale grey powder.  
Odour No specific odour.  
pH 4 @ 20°C In  
Boiling Point Not available  
Melting Point 560 °C (Decomposition)  
Flash Point Not applicable  
Upper Flammable Limit Not applicable  
Lower Flammable Limit Not applicable  
Auto Ignition Not applicable  
Explosive Properties No.  
Oxidising Properties No.  
Vapour Pressure Not applicable  
Relative Density 3.600  
Water Solubility 220 g/L @ 25 °C

## 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                | No specific conditions.                            |
| 10.5 | Incompatible Materials             | No specific materials to avoid.                    |
| 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                 | Contact with the solid or dust may be irritating to the eyes.   |
| Skin                 | Contact with the solid or solution may be irritating to the skin.   |
| LD50 Skin            | Not available   |
| Ingestion            | Ingestion of large amounts will produce vomiting, gastric pain, dizziness, convulsions, shock, coma and possibly death. As little as 10g has been reported as causing death although victims have recovered after ingesting much larger amounts Copper salts tend to cause vomiting and for this reason poisoning by ingestion is rare . Chronic poisoning may give rise to kidney damage, enlargement of the liver and jaundice. |
| LD50 Oral            | Not available   |
| Inhalation           | Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.   |
| 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

- |      |                                  |  |
|------|----------------------------------|--|
| 12.1 | Toxicity                         | Copper salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. |
|      | LC50 Algal                       | Not available  |
|      | LC50 Crustacea                   | Not available  |
|      | LC50 Fish                        | Not available  |
| 12.2 | Persistence and degradability    | No data available.   |
| 12.3 | Bioaccumulative potential        | No data available.   |
| 12.4 | Mobility in soil                 | No data available.   |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.   |
| 12.6 | Other adverse effects            | None known at present.   |

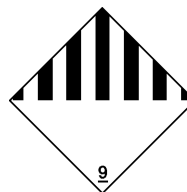
## Section 13. Disposal Considerations

### 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 UN Number</b>  | 3077   |
| <b>14.2 Proper Shipping Name</b>   | Environmentally hazardous substance, solid, N.O.S. (Cupric Sulphate) |
| <b>14.3 Transport classes</b>  |  |
| UN classification  | 9  |
| Subsidiary hazard(s)   | None   |
| Transport category   | 3  |
| ADR Hazard ID  | 90   |
| Tunnel Restriction Code  | E  |
| Single packs and combination packages containing inner packs of up to 5L or 5Kg are excluded from regulation (ADR 2.2.9.1.10, IMDG code 2.10.3). |  |
| <b>14.4 Packing Group</b>  | III  |
| <b>14.5 Environment hazards</b>  | Marine pollutant.  |
| <b>14.6 Special precautions for user</b>   | No special precautions required.                                     |
| <b>14.7 Transport in bulk</b>  | Not transported in bulk.   |



## Section 15. Regulatory Information

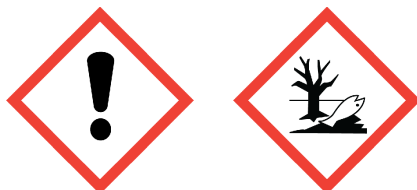
### 15.1 Safety, health and environment regulations specific for substance/mixture.

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

Classification Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Warning

Hazard Pictograms



Hazard Statements H302, H319, H315, H410  
Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330  
Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

### 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.

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