

**SAFETY DATA SHEET**  
HIGH QUALITY COPPER (50G) 33835312

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Compilation date: 21/04/2015

Revision No: 1

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

**1.1. Product identifier**

Product name: HIGH QUALITY COPPER (50G) 33835312

CAS number: 7440-50-8

Product code: 33835312

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

Use of substance / mixture: PC21: Laboratory chemicals.

**1.3. Details of the supplier of the safety data sheet**

Company name: Thermo Fisher Scientific  
Hanna-Kunath-Str. 11  
Bremen  
28199  
Germany

Tel: 0049 (0) 421-5493-0

Email: [debre\\_reception@thermofisher.com](mailto:debre_reception@thermofisher.com)

**1.4. Emergency telephone number**

Emergency tel: +49 (0) 700 24112112 (24h) Code TFS

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CHIP: Xi: R36/37/38

Classification under CLP: Aquatic Acute 1: H400; Aquatic Chronic 4: H413

Most important adverse effects: Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

**2.2. Label elements**

**Label elements:**

Hazard statements: H400: Very toxic to aquatic life.

H413: May cause long lasting harmful effects to aquatic life.

Hazard pictograms: GHS09: Environmental



Signal words: Warning

Precautionary statements: P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to hazardous or special waste collection point.

[cont. .]

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Label elements under CHIP:

Hazard symbols: Irritant



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

**2.3. Other hazards**

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

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

Hazardous ingredients:

COPPER

| EINECS    | CAS       | CHIP Classification | CLP Classification      | Percent |
|-----------|-----------|---------------------|-------------------------|---------|
| 231-159-6 | 7440-50-8 | Xi: R36/37/38       | Aquatic Chronic 4: H413 | >90%    |

Contains: HIGH QUALITY COPPER (50G) 33835312 Cu

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Wash out mouth with water.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

Immediate / special treatment: Not applicable.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

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### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

## Section 6: Accidental release measures

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

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

### 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: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Wash hands after working with substance

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

### 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:

#### Respirable dust

| State | Workplace exposure limits: |              | Respirable dust |              |
|-------|----------------------------|--------------|-----------------|--------------|
|       | 8 hour TWA                 | 15 min. STEL | 8 hour TWA      | 15 min. STEL |
| UK    | 1mg/m3                     | 2mg/m3       | 0.2mg/m3        | -            |

#### Hazardous ingredients:

COPPER

[cont. ]

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**Workplace exposure limits:**

| State | Workplace exposure limits: |              | Respirable dust |              |
|-------|----------------------------|--------------|-----------------|--------------|
|       | 8 hour TWA                 | 15 min. STEL | 8 hour TWA      | 15 min. STEL |
| EU    | -                          | -            | 1.0mg/m3        | 2.0mg/m3     |

**DNEL/PNEC Values**

DNEL / PNEC No data available.

**8.2. Exposure controls**

**Respiratory protection:** Respiratory protective device with particle filter. Particle filter class P1 (EN143).

**Hand protection:** Protective gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Wire

**Colour:** Pink

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Slightly soluble

**Viscosity:** No data available.

**Boiling point/range°C:** 2567

**Melting point/range°C:** 1083

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** No data available.

**pH:** No data available.

**VOC g/l:** No data available.

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

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## 10.4. Conditions to avoid

Conditions to avoid: Heat

## 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicity values: No data available.

### Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

## Section 12: Ecological information

### 12.1. Toxicity

Hazardous ingredients:

COPPER

|               |          |      |      |
|---------------|----------|------|------|
| Daphnia magna | 48H EC50 | 0.04 | mg/l |
| FISH          | 96H LC50 | 0.15 | mg/l |

### 12.2. Persistence and degradability

Persistence and degradability: Not biodegradable

### 12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential

### 12.4. Mobility in soil

Mobility: No data available

### 12.5. Results of PBT and vPvB assessment

Persistence (P-):

Persistence result: not P-

Bioaccumulation (B-):

Bioconcentration factor (BCF): 108

Bioaccumulation result: not B-

Toxicity (T-):

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Toxicity result: not T-

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

## 12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

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

## Section 14: Transport information

Transport class: This product does not require a classification for transport.

## Section 15: Regulatory information

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

Specific regulations: This product does not contain substances of very high concern according to regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of more than or equal to 0.1% (w/w).

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

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

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

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

Phrases used in s.2 and s.3: H400: Very toxic to aquatic life.

H413: May cause long lasting harmful effects to aquatic life.

R36/37/38: Irritating to eyes, respiratory system and skin.

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.

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