

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

**1.1. Product identifier**

**Product name:** BRASS

**CAS number:** 63338-02-3

**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:** Elemental Microanalysis Ltd  
1 Hameldown Road Okehampton  
Okehampton  
Devon  
EX20 1UB  
United Kingdom

**Tel:** 44(0)183754446

**Fax:** 44(0)183754544

**Email:** [info@microanalysis.co.uk](mailto:info@microanalysis.co.uk)

**1.4. Emergency telephone number**

**Emergency tel:** +44 (0) 7990 767375

(office hours only)

**Section 2: Hazards identification**

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

**Classification under CLP:** Aquatic Acute 1: H400; Aquatic Chronic 1: H410

**Most important adverse effects:** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H400: Very toxic to aquatic life.

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

**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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## 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	PBT / WEL	CLP Classification	Percent
231-159-6	7440-50-8	-	Aquatic Chronic 2: H411	50-70%

ZINC

231-175-3	7440-66-6	-	Aquatic Acute 1: H400; Aquatic Chronic 1: H410	30-50%
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## 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.

### 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

[cont...]

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## 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. Ensure there is sufficient ventilation of the area.

### 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

**Hazardous ingredients:**

COPPER.

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.2mg/m <sup>3</sup>	-	1.0mg/m <sup>3</sup>	2.0mg/m <sup>3</sup>

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Respiratory protection:** \* Respiratory protective device with particle filter.

**Hand protection:** \* Protective gloves.

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

**Skin protection:** \* Protective clothing.

[cont...]

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## Section 9: Physical and chemical properties

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

**State:** Wire

**Colour:** Gold

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** No data available.

**Viscosity:** No data available.

**Boiling point/range°C:** No data available.

**Melting point/range°C:** No data available.

**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.

### 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

[cont...]

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**Hazardous ingredients:**

**ZINC**

DUST/MIST	RAT	4H LC50	5.41	mg/l
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**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.**

ALGAE	96H ErC50	47	µg/l
Daphnia magna	48H EC50	0.04	mg/l
FISH	96H LC50	0.15	mg/l

**ZINC**

Ceriodaphnia dubia	48H EC50	0.416	mg/l
FISH	96H LC50	0.439	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

### 12.5. Results of PBT and vPvB assessment

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

[cont...]

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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

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 3

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 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:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

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

H411: Toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive

[cont...]

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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.