

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

1.1 Product identifier

Trade name: Kupferkathoden / Copper cathodes

Article number: -

CAS Number:

7440-50-8

EC number:

231-159-6

Registration number: 01-2119480154-42-0036

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

Application of the substance / the preparation:

Production of continuous cast rod

Continuous and discontinuous casting plant, especially for the manufacture of copper products in the grades Cu-OFE, Cu-OF1 pursuant to EN, Cu-PHCE, CuAg(OF) and Cu-ETP1

Intermediate

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Montanwerke Brixlegg AG

Werkstraße 1

A-6230 Brixlegg

Tel: +43-5337-6151-0

Fax: +43-5337-6151-102

MSDS@Montanwerke-Brixlegg.com

More information: www.montanwerke-brixlegg.com

1.4 Emergency telephone number:

Tel: + 43-5337-6151-0

during normal business hours

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Designation:

7440-50-8 copper

Identification number(s):

EC number: 231-159-6

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Measures are required if there will be built fumes or dust which could be inhaled or swallowed.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: If symptoms persist, seek medical advice.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.**6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.**6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling** Ensure that suitable extractors are available on processing machines**Information on protection against explosions and fires:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storagerooms and containers:** No special requirements.**Information on storage in one common storage facility:** Not required.**Further information about storage conditions:** Dry storage of metal which will be melted.**Storage class:** 13**SECTION 8: Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**8.1 Control parameters****Components with critical values that require monitoring at the workplace:****7440-50-8 copper**

WEL (Great Britain)	Short-term value: 2** mg/m ³ Long-term value: 0.2* 1** mg/m ³ *fume **dusts and mists (as Cu)
MAK (Germany)	Long-term value: 0.01 A mg/m ³ als Cu

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment: Not necessary if room is well-ventilated.**Protection of hands:** Protective gloves**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information:

Appearance:

Form:	Solid
Colour:	Copper coloured
Odour:	Odourless
Odour threshold:	Not determined.

pH-value: Not applicable.

Change in condition:

Melting point/Melting range:	1059-1069 °C °C
Boiling point/Boiling range:	2597 °C

Flash point: Not applicable.

Inflammability (solid, gaseous): Product is not inflammable.

Ignition temperature:

Decomposition temperature: Not determined.

Self-inflammability: Not determined.

Danger of explosion: Product is not explosive, except of fine dust.

Critical values for explosion:

Lower:	Not determined.
Upper:	Not determined.

Vapourpressure: Not applicable.

Density:	Not determined
Relative density at 20 °C:	8.78 g/cm ³
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.

Solubility in / Miscibility with:

Water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic:	Not applicable.
kinematic:	Not applicable.

9.2 Other information
Particle size
Diameter ≥1 mm

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Conditions to be avoided: Stable up to melting point.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Oxidizing agent
ammonia
Strong acid

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10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin: Based on available data, the classification criteria are not met.

Eye: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

Contact manufacturer for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Not applicable.

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Safety data sheet
according to 1907/2006/EC, Article 31

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14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

National regulations:

Technical instructions (air):

Class	Share in %:
III	100.0

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

User: UHE

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**