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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Kupferkathoden**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:** During worktime.**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.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void**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:** In case of persistent symptoms 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:** Not necessary.**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.

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 storerooms 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 should be melted down.**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 that were valid during the compilation were used as basis.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures should be adhered to in handling the chemicals.

Separate storage of protective clothing.

Breathing equipment:

Not necessary if room is well-ventilated.

Dustmask recommendable

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.

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.

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Eye protection: Safety glasses

Body protection: Protective work clothing

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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/cm³**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 informationParticle size
Diameter ≥ 1 mm**SECTION 10: Stability and reactivity****10.1 Reactivity****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

10.6 Hazardous decomposition products: None

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity:****Primary irritant effect:****Skin:** No irritant effect.**Eye:** No irritant effect.**Sensitisation:** No sensitizing effect known.**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The material is not subject to classification according to EC lists in the last version.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** No further relevant information available.**Additional ecological information:****General notes:** Generally not hazardous for water.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**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.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****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**

These data are based on our present knowledge. However, they will not constitute a guarantee for any specific product features and will not establish a legal contractual relationship.

User: Ursula Heinrich**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)

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