Serravalle Copper Tubes S.r.l.



www.kme.com reach.de@kme.com

KME-product: semi-finished products from copper zinc alloys with lead ≤ 0,1 %

Revised at: 12.07.2019

# Information sheet for articles

#### 1. Identification of the article and of the supplier

## Supplier/Manufacturer // Application and use of the articles

KME SE affiliates, hereinafter referred to as KME, manufacture and supply products made of copper and copper alloys in the form of semi-finished products like hot and cold rolled bands, plates, sheets and strips, pressed and drawn pipes, tubes, profiles, rods, either uncoated or with tinned surface.

#### **REACH** - information contact

Frank Otten KME Germany GmbH & Co. KG

Head of EHSQ-Management KME Klosterstraße 29 REACH coordination KME 49074 Osnabrück

**GERMANY** Phone: +49 (0)541 321 1509

Mobile: +49 (0)160 53 56 995 Phone +49-(0)5 41-3 21-0 E-Mail: Frank.Otten@kme.com +49-(0)5 41-3 21-13 66

Elena Maria Martellucci contact for Italy

Quality and R&D Manager Phone: +39 0583 701 396 KME Italy S.p.A.

Via della Repubblica, 257 E-Mail: ElenaMaria.Martellucci@kme.com 55051 Fornaci di Barga (LU)

**ITALY** 

Phone. +39 0583 701 1 Fax +39 0583 709 623

## Remarks

Semi-finished products from copper and copper alloys are articles according to Regulation (EC) No. 1907/2006 (REACH Regulation). For articles it is not mandatory by law to issue a safety data sheet. To provide information to our customers this voluntarily information sheet was compiled, but it is not subject to the formal requirements of the REACH Regulation.

#### 2. Hazard identification

When supplied in solid form the articles from copper and copper alloys are non-hazardous. If they are subsequently processed in any way which might produce airborne dust or fumes, for instance by dry grinding, abrading, electro discharge machining, melting or welding (the material itself) then an inhalation hazard could arise.

General handling, stamping, forming and most machining operations are non-hazardous. Heat treatment in air up to about 400 °C is non-hazardous but higher temperatures may give rise to loss of oxide, which could cause hazardous inhalation. This can be avoided by treatment in inert atmosphere.



www.kme.com <u>reach.de@kme.com</u>

# 3. Composition / information on ingredients

**Description:** copper zinc alloys with lead ≤ 0.1 % (metal in compact form)

Material codes: copper zinc alloy

KME material Trade name	Material code (DIN CEN/TS 13388:2015)	Material number (DIN CEN/TS 13388:2015)	ASTM
-	CuZn05	CW 500 L	C 21000
-	CuZn10	CW 501 L	C 22000
-	CuZn15	CW 502 L	C 23000
-	CuZn20	CW 503 L	C 24000
-	CuZn28	CW 504 L	-
-	CuZn30	CW 505 L	C 26000
-	CuZn33	CW 506 L	C 26800
-	CuZn36	CW 507 L	C 26000
-	CuZn37	CW 508 L	C 27400

The classifications mentioned below reflect the classification of the responding pure substance and are for information only. Copper alloys are special preparations according to Regulation (EC) 1907/ 2006 (REACH).

Classified alloy components (respective to individual alloy

Number	Name of component	Classification CLP / EU	Content (w/w) / remark
CAS: 7440-38-2 EINECS: 231-148-6	Arsenic	Acute Tox. 3, H301; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	Max 0,15 %

### non harmonized classified alloy components (respective to individual alloy)

Number	Name of component	Classification
CAS: 7440-50-8 EINECS: 231-159-6	Copper	-
CAS: 7440-66-6 EINECS: 231-175-3	Zinc	-
CAS: 7440-31-5 EINECS: 231-141-8	Tin (in case of tinned surface)	-

**> KME** 

www.kme.com <u>reach.de@kme.com</u>

### 4. First aid measures

General information: There is no acute risk associated and no special measures required.

Exposure	Measures
Inhalation	Ensure supply of fresh air. In the event of symptoms refer to medical treatment. In practice any exposure can only arise from operations such as grinding, abrading, electro discharge machining, welding or melting and is likely to be at low levels which will not cause immediate symptoms.
Skin contact	Normally no skin irritation.
Eye contact	Rinse thoroughly with plenty of water and seek medical advice. Use normal industrial protection to protect against foreign bodies entering the eyes.
Ingestion	In the event of symptoms refer to medical treatment. Use normal industrial hygiene.

# 5. Firefighting measures

suitable extinguishing agents	Use fire extinguishing methods suitable to surrounding conditions.
Protective equipment	No special measures required

# 6. Accidental release measures

Personal Protection	Not required, not applicable
Environmental protection	Not required, not applicable

7. Handling and storage

Handling and storage	Measure
and environment	Control are only applicable to any process which might produce airborne dust or fumes, which are subject to Health and Safety Executive Maximum Exposure as shown in chapter 8
Storage, Co-storage, maxi- mum storage	No special requirements. Look for surrounding conditions.

Serravalle Copper Tubes S.r.l.

**SKME** 

www.kme.com reach.de@kme.com

#### 8. **Exposure controls and personal protections**

# Limitation and control of the exposure at the working place

If breathable dust or smoke occurs by machining, the exposition to workers should be controlled with an exhaust filter system to meet the limit values. As an additional measure personal protection as a filter mask or an independent breathing helmet may be used.

#### Occupational Exposure Limit Values for possible hazards during processing

Link to GESTIS International Limit Values: http://limitvalue.ifa.dguv.de/WebForm\_gw2.aspx

Personal protective equipment	Recommendation
Respiratory	Use an industrial filter mask (type P2) when work-place limits are exceeded.
Hands	Protective gloves are recommended, depending on the handling.
Eyes	Eye protection is recommended, depending on the processing.
Body	Wear suitable protective clothing, depending on the processing.

Physical and chemical properties 9.

Parameter	Description
Colour	Metallic yellow
State of aggregation	solid
Density	8,4 g/cm3 (Lit.)
Solubility in water	insoluble
Odour	odourless
Melting point	890 – 900 °C (Lit.)
Boiling point / boiling range	undetermined
Flash point	Not applicable
Ignition (solid, gaseous)	Not applicable
Explosion occurrence	<ul><li>No danger in solid form</li><li>In case of melted metal risk of explosion by contact with water.</li></ul>

# 10. Stability and reactivity

Conditions to avoid: No decomposition if used to specification.

With contact to mercury, ammonia, acetylene, chlorine-gas and various acids may be incompatibility. There will be a corrode reaction.

# 11. Toxicology information

#### General information:

When used and handled according to specifications, the article does not have any harmful effects to our experience.

On skin: No irritant effect. On eye: No irritating effect.

Sensitization: No sensitizing effects known.



www.kme.com <u>reach.de@kme.com</u>

# 12. Ecological information

#### **General notes**

Semi-finished articles from copper and copper-alloys are practically insoluble in water.

### Potential of bioaccumulation

Copper is a basic essential element, it will not be accumulated, but by some living stored for later use.

# 13. Disposal considerations / Recycling

KME confirm that the articles from copper and copper alloys could and should be recycled by end of life in accordance with Annex II to Directive 75/422/EEC for the recovery operation R4 (recycling / reclamation of metals).

Classification according to the EU-Waste Catalogue Ordinance

KME is authorized to receive and recover waste from copper and copper alloys each broken down by source:

Origin of the waste in according with EWC	EWC- Waste Code	Description
Waste metal	02 01 10	Waste metal
Slags from primary and secondary production	10 06 01	Slags from primary and secondary production
Other particulates and dust	10 06 04	Other particulates and dust
Furnace slag	10 10 03	Furnace slag
Other particulates other than those mentioned in 10 10 11	10 10 12	Other particulates other than those mentioned in 10 10 11
Wastes from copper hydrometallurgical process other than those mentioned in 11 02 05	10 02 05	Wastes from copper hydrometallurgical process other than those mentioned in 11 02 05
Waste from mechanical design processes	12 01 03	Non-ferrous metal chips
disassemble of old cars	16 01 18	Non-ferrous metal
Metals (including alloys)	17 04 01	copper, bronze, brass
Waste from shredding of metal-containing waste	19 10 02	Non-ferrous metal waste
Wastes from the mechanical processing (eg sorting, crushing)	19 12 02	Non-ferrous metal

**EU-transboundary shipment of waste Directive** 

Classification	Waste Code	Description
B1 metals and metal containing waste, in massive form	B1010	Copper scrap

Contact KME or local metal dealer for recycling information.

### 14. Transport information

There is no special risk of carrying copper alloys in solid form, either as a primary product or as scrap. EEC hazard labelling is not required.

Apply suitable measures concerning load securing in due consideration to dimension and mass of the articles.

**> KME** 

www.kme.com reach.de@kme.com

# 15. REACH / SVHC

# Labelling in accordance to the EC-regulations and SVHC candidate list

Semi-finished articles from copper and copper-alloy are not a substance or mixtures according to Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures (GHS/CLP regulation).

The articles and packaging do not contain any of the particularly alarming substances (SVHC) mentioned in the candidate list in concentrations of more than 0.1% (w/w), at the time of the revision date of this information sheet.

(SVHC-candidate list for authorization updated by ECHA)

Link to the most recent update: https://echa.europa.eu/de/candidate-list-table

# 16. Information regarding other regulations

The products from copper and copper-alloy (with tinned or uncoated surface) have a chemical composition in accordance with the below listed Directives of the European Parliament and of the Council and Council/Commission Decisions and mentioned regulations:

Council/Commissio	n Decisions and mentioned regulations:
Item	Regulation
ELV	DIRECTIVE 2000/53/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 September 2000 on end-of life vehicles (so-called ELV) according amendment of Annex II (2008/689/EG)
GADSL	VDA 232-101 Global Automotive Declarable Substance List (GADSL)
RoHS-3 (assessment based on DIN EN 50581)	DIRECTIVE 2011/65/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 08 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.  COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU (RoHS 3)  COMMISSION DELEGATED DIRECTIVE (EU) 2017/2102 of 15 November 2017 amending Directive 2011/65/EU  COMMISSION DELEGATED DIRECTIVE (EU) 2018/741 of 01 March 2018 amending Annex III to Directive 2011/65/EU  In case of lead-containing alloy applied exemption according annex III:  6c) Copper alloy containing up to 4 % lead (w/w) (exemption extend until 21. Juli 2021)  China-RoHS SJ/T 11363-2006)
DecaBDE	DIRECTIVE 2005/717/EG of 1st July 2008 Flame retardent DecaBDE in electrical and electronic appliances.
WEEE	For KME articles (semi-finished products) this directive is not applicable.
POP Stockholm Convention	POP-Directive REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on persistent organic pollutants to recast and repealing EG/850/2004 and associated amendments
PFOS	Directive 2003/11/EG (Pentabromdiphenylether, Octabromdiphenylether) and 2006/122 EG (PFOS) of the EUROPEAN PARLIAMENT AND OF THE COUNCIL to change 76/769/EG for the use of dangerous substances and dangerous products.  The products are free from PAH.
Ozone-Layer	Regulation (EC)1005/2009: Substances that Deplete the Ozone Layer
Packaging ma- terial	Directive 94/62/EC (packaging and packaging waste)
Siloxane	The products are free from Octamethylcyclotetrasiloxane (D4) (EC No: 209-136-7, CAS No: 556-67-2) and Decamethylcyclopentasiloxane (D5) (EC No. 208-764-9, CAS No. 541-02-6)
- Cr VI - asbestos - mercury	The products are free from hexavalent chromium (CrVI) and asbestos There is no use of mercury in our alloy composition

KME Germany GmbH & Co. KG, KME Mansfeld GmbH, KME Italy S.p.A., KME Rolled France SAS, Tréfimétaux SAS, Serravalle Copper Tubes S.r.l.



www.kme.com reach.de@kme.com

**US State Regulations** 

TSCA	All alloy-components are listed on the TSCA (Toxic Substance ControlAct) list or are exempt from.  All alloy-components are listed on SARA Section 313
	Reporting and/or labelling requirements may be applicable for the components (including unintentional trace elements) of as-supplied alloy bar-stock; check your State and Local Regulatory Requirements for any reporting and labelling requirements.

### **REACH**

Item	EU-Regulation
annex XVII	Arsenic, CAS: 7440-38-2, EINECS: 231-148-6
to REACH	Some uses of arsenic articles are restricted under
Regulation (EU)	Annex XVII of REACH. (entry 19 for arsenic compounds)
No 1907/2006	

### 17. Disclaimer

We confirm that the information involved in the drawing up of this document has been checked to the best of our knowledge for completeness, correctness and current relevance. They are given for a safe and proper use of our articles. These given data don't have the meaning of warranted characteristics of the specific delivered articles.

We shall inform our customers about mistakes which transpire to exist in information included in this information sheet as well as about amendments about which we become aware prior to a delivery. We declare our agreement with the fact that our information is to be used by our customers along the supply chain.