

**KME-product:** semi-finished products from **complex copper zinc alloys**

*Revised at: 26.06.2023*

## 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 metal coated surface.

#### **Remark**

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.

#### **KME Corporate REACH regulatory affairs / Product stewardship**

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## Production Sites / Contact Product-stewardship

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## Service Centers / Contact Product-stewardship

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## 2. Hazard identification

When supplied in solid form the articles from copper and copper alloys are non-hazardous. If they will 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 is avoided by treatment in an inert atmosphere.

## 3. Composition / information on ingredients

**Description:** complex copper zinc alloy (brass)

**Material codes:** copper alloy

KME material Trade name	Material Code (DIN CEN/TS 13388:2015-08)	Material number (DIN CEN/TS 13388:2015-08)	ASTM
-	CuZn31Si1	CW 708 R	C69800
-	CuZn35Ni3Mn2AlPb	CW 710 R	
-	CuZn37Mn3Al2PbSi	CW 713 R	C67420
SM48	CuZn38AlFeNiPbSn	CW 715 R	

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).

### Harmonized classified alloy components (respective to individual alloy)

Number	Name of component	Classification CLP / EU	Content (w/w) / remark
CAS: 7440-02-0 EINECS: 231-111-4 Index-No.: 028-002-00-7	Nickel	Skin Sens. 1, H317 Carc. 2, H351 (inhalation) STOT RE 1, H372 (inhalation)	Max. 3 %
CAS: 7439-92-1 EINECS: 231-100-4	Lead <sup>1</sup>	Repr. 1A ; H360 FD Lact. : H362 STOT RE 1 ; H372	Max 1 %

<sup>1</sup> "Lead" was identified by ECHA as SVHC. Inclusion date: 27.06.2018.  
This does not imply that safe use conditions have changed.

### 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: 7439-96-5 EINECS: 231-105-1	Manganese	-
CAS: 7429-90-5 EINECS: 231-072-3	Aluminium	-
CAS: 7440-31-5 EINECS: 231-141-8	Tin	-
CAS: 7439-89-6 EINECS: 231-096-4	Iron	-
CAS: 7440-21-3 EINECS: 231-130-8	Silicon	-

## 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

<b>suitable extinguishing agents</b>	Use fire-extinguishing methods suitable to surrounding conditions.
<b>Protective equipment</b>	No special measures required

## 6. Accidental release measures

<b>Personal Protection</b>	Not required, not applicable
<b>Environmental protection</b>	Not required, not applicable

## 7. Handling and storage

Handling and storage	Measure
<b>Protection of personal health and environment</b>	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
<b>Storage, Co-storage, maximum storage</b>	No special requirements. Look for surrounding conditions.

## 8. Exposure controls and personal protections

### Limitation and control of the exposure at the working place

If breathable dust or smoke occurs by machining, avoid exposition to workers using 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](http://limitvalue.ifa.dguv.de/WebForm_gw2.aspx)

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

## 9. Physical and chemical properties

Parameter	description
<b>Colour</b>	Metallic yellow
<b>State of aggregation:</b>	solid
<b>Density</b>	8,3 g/cm <sup>3</sup> (Lit.)
<b>Solubility in water</b>	insoluble
<b>Odour:</b>	odourless
<b>Melting point:</b>	890 – 900 °C (Lit.)
<b>Boiling point / boiling range:</b>	undetermined
<b>Flash point</b>	Not applicable
<b>Ignition (solid, gaseous)</b>	Not applicable
<b>Explosion occurrence</b>	- No danger in solid form - In case of melted metal risk of explosion by contact with water.

## 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:

While handling 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.

## 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).

KME is the reliable partner to accept and recycle copper and copper scrap.

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
Other particulates and dust	10 08 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 06	Wastes from copper hydrometallurgical process
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 17 04 03 17 04 06 17 04 07	copper, bronze, brass lead tin mixed metals
Waste from shredding of metal-containing waste	19 10 02	Non-ferrous metal waste
Wastes from the mechanical processing (e.g. sorting, crushing)	19 12 02 19 12 03	Non-ferrous metal
municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	20 01 40	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.

## 15. REACH / SVHC

Semi-finished products 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 do contain following substances defined as SVHC in concentrations of more than 0.1% (w/w).

Substance	CAS/EINECS	List	Date of inclusion
Lead	CAS: 7439-92-1 EINECS: 231-100-4	SVHC	27.06.2018

The 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>

### REACH Article 7(2) requires producers or EU-importers of articles to notify ECHA if their article contains a substance on the Candidate List.

KME notified "lead as component" in articles with following brief description of the use of the substance in the article(s) and of the uses of the article(s) for which KME take responsibility (including the known downstream uses):

Notification service life name	Use of articles of copper alloys containing lead
Service life of articles made of copper alloys containing lead	<ul style="list-style-type: none"> <li>mechanical processing (e.g. bending, machining, milling, drilling, welding, soldering, grinding) of semi-finished articles into finished articles</li> <li>assembly and installation of the final article,</li> <li>maintenance and use of the final article</li> <li>disposal of the article</li> <li>collection, sorting and recycling of alloy constituents (e.g. copper)</li> </ul>
Contributing activity/ technique for the environment	<ul style="list-style-type: none"> <li>Professional use: mechanical processing of semi-finished articles into finished articles → ERC12a + ERC12c</li> <li>Professional use: welding of articles made from copper alloys containing lead → ERC 12b + ERC12c</li> <li>Consumer: use of articles made from copper alloys containing lead → ERC10a + ERC 11a</li> </ul>
Contributing activity/ technique for consumer	<ul style="list-style-type: none"> <li>Use of articles made from copper alloys containing lead</li> <li>AC1: Vehicles;</li> <li>AC2: Machinery, mechanical appliances, electrical/ electronic articles</li> <li>AC3: Electrical batteries and accumulators</li> <li>AC7: Metal articles</li> </ul>
Contributing activity/ technique for workers	<ul style="list-style-type: none"> <li>Professional use: mechanical processing of semi-finished articles into finished articles → PROC 21</li> <li>Professional use: welding of articles made from copper alloys containing lead → PROC25</li> </ul>
Technical function of substance during use	alloying element



## 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:



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) <b><u>In case of lead-containing alloy applied exemption according annex II:</u></b> <i>3 Copper alloy containing up to 4 % lead (w/w) (exemption will be reviewed 2025)</i> <i>acc. latest commission delegated directive</i>
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 <b><u>In case of lead-containing alloy applied exemption</u></b> <i>6c) Copper alloy containing up to 4 % lead (w/w)</i>  ----- Turkey-RoHS  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.
Hydrogen halide	The products are free from hydrogen halides (fluorine, chlorane, bromane, iodane, astatene)
Ozone-Layer	Regulation (EC)1005/2009: Substances that Deplete the Ozone Layer
Packaging material	Directive 94/62/EC (packaging and packaging waste)

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Item	Regulation
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
Per- and polyfluoroalkyl substances (PFAS)	The products are free from PFAS.
US TSCA-PBT Regulation	The products are free from these regulated PBT substances: -2,4,6-Tris(tert-butyl)phenol; 2,4,6-TTBP(CASRN 732-26-3). -Phenol, isopropylated phosphate (3:1); PIP (3:1)(CASRN 68937-41-7). -Pentachlorothiophenol; PCTP(CASRN 133-49-3). -Hexachlorobutadiene; HCBd(CASRN 87-68-3). -Decabromodiphenyl ether; DecaBDE(CASRN 1163-19-5).

## US State Regulations

TSCA	All alloy-components are listed on the TSCA (Toxic Substance Control Act) list or are exempt from. All alloy-components are listed on SARA Section 313
SARA Section 312	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.
<b>U.S. California-Proposition 65 Carcinogens List</b>  <b>Lead</b> CAS: 7439-92-1	 <b>WARNING:</b> This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .  In solid form there will be no exposure of chemicals to the air by the articles. If the articles 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 exposure to the air of the listed chemicals and the inhalation hazard could arise.
<b>U.S. California-Proposition 65 Carcinogens List</b>  <b>Nickel</b> CAS: 7440-02-0	 <b>WARNING:</b> This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .  In solid form there will be no exposure of chemicals to the air by the articles. If the articles 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 exposure to the air of the listed chemicals and the inhalation hazard could arise.
<b>U.S. California - Proposition 65 Development List</b>  <b>Lead</b>	 <b>WARNING:</b> This product can expose you to chemicals including lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

CAS: 7439-92-1	In solid form there will be no exposure of chemicals to the air by the articles. If the articles are subsequently processed in any way which might produce air-borne dust or fumes, for instance by dry grinding, abrading, electro discharge machining, melting or welding (the material itself) then an exposure to the air of the listed chemicals and the inhalation hazard could arise.
<b>U.S. - California - Proposition 65 Reproductive Toxicity - Female</b>  <b>Lead</b> CAS: 7439-92-1	 <b>WARNING:</b> This product can expose you to chemicals including lead, which is known to the State of California to cause birth defects or other reproductive harm.  For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>  In solid form there will be no exposure of chemicals to the air by the articles. If the articles are subsequently processed in any way which might produce air-borne dust or fumes, for instance by dry grinding, abrading, electro discharge machining, melting or welding (the material itself) then an exposure to the air of the listed chemicals and the inhalation hazard could arise.
<b>U.S. - California - Proposition 65 Reproductive Toxicity - Male</b>  <b>Lead</b> CAS: 7439-92-1	 <b>WARNING:</b> This product can expose you to chemicals including lead, which is known to the State of California to cause birth defects or other reproductive harm.  For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>  In solid form there will be no exposure of chemicals to the air by the articles. If the articles are subsequently processed in any way which might produce air-borne dust or fumes, for instance by dry grinding, abrading, electro discharge machining, melting or welding (the material itself) then an exposure to the air of the listed chemicals and the inhalation hazard could arise.

## REACH

<b>annex XVII to REACH Regulation (EU) No 1907/2006</b>  <b>Lead</b> CAS: 7439-92-1	<u>Lead, CAS: 7439-92-1, EINECS: 231-100-4</u>  Some uses of <u>lead</u> in articles are restricted under <a href="#">Annex XVII of REACH</a> . (entry 63 for lead and lead-compounds)  This document, <a href="http://echa.europa.eu/documents/10162/13563/lead_guideline_information_en.pdf">echa.europa.eu/documents/10162/13563/lead_guideline_information_en.pdf</a>  aims at providing a guideline concerning the interpretation of the scope of the restriction provisions in paragraphs 7 to 10 of <u>entry 63</u> of Annex XVII to REACH Regulation (EU) No 1907/2006 on lead and its compounds in articles supplied to the general public. It has been drawn up to (i) clarify certain terms that define the scope of the restriction (e.g. "accessible part of articles", "normal/reasonably foreseeable conditions of use") (ii) provide non-exhaustive lists of article types (and examples of sub-types) which fall within (or out of ) the scope of the restriction.
<b>annex XVII to REACH Regulation (EU) No 1907/2006</b>	<u>Nickel CAS: 7440-02-0 ; EINECS: 231-111-4</u> Some uses of <u>nickel</u> in articles are restricted under <a href="#">entry 23 annex XVII nickel</a>

## **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 do not 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.