

Date of issue: 04.06.2014 Replaces Data Sheet of: 30.05.2007

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier:** n.ap.
Commercial Product Name: Cu-OF1
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against:** None.
Use: Brazing alloy
Chemical nature of the preparation: Metal alloy
- 1.3 **Details of the supplier of the safety data sheet:**
Address: Manufacturer, supplier:
H.P.Wirth GmbH, Weberstr. 46, 75239 Eisingen, Germany
Telephone: + 497232 80978 12, Telefax: + 497232 80978 15
Contact person: Mr. Jan Wirth, eMail: j.wirth@hpwirth.com
Responsible:
CHEMCO123® – Chemical Consultancy, graduate chemist, R. Fechner, ☎ + 49 5254 9575 05
eMail: info@chemco123.de
- 1.4 **Emergency telephone number:**
Information Centre Specialising in Symptoms of Poisoning: +49 30 19 240 (with costs)
Emergency - Telephone of Company / Undertaking + 497232 80978 12

*** SECTION 2: Hazards identification**

- 2.1 **Classification of the substance or mixture:** :
Classification according to Directive 1999/45 and Regulation (EC) 1272/2008:
None.
- 2.2 **Label elements:**
Label elements according to Directive 1999/45 and Regulation (EC) 1272/2008:
None.
- 2.3 **Other hazards:**
For Humans:
Vapour during processing may be irritating to the respiratory tract and to the eyes.
For the Environment:
None.
Persistent, bioaccumulative and toxic substances (PBT-substances): None.
Very persistent and very bioaccumulative substances (vPvB-substances): None.

*** SECTION 3: Composition/information on ingredients****3.1 Dangerous Ingredients:**

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol / pictogram (e)	R - / H - phrases
None.	None	231-159-6	copper	> 99,99 %	n.ap.	n.ap.

*** SECTION 4: First aid measures**

- 4.1 **Description of first aid measures:**
General advice:
Show this safety data sheet to the doctor in attendance.
Inhalation:
No hazards resulting from the material as supplied.
Skin Contact:
Wash off with soap and water.
Eye Contact:
No hazards resulting from the material as supplied.
Ingestion:
No hazards resulting from the material as supplied.
- 4.2 **Most important symptoms and effects, both acute and delayed:**
None.
- 4.3 **Indication of any immediate medical attention and special treatment needed:**
None.

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* SECTION 5: Firefighting measures

- 5.1 **Extinguishing media:**
Suitable Extinguishing Media: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media: None.
- 5.2 **Special hazards arising from the substance or mixture:**
 In the event of fire the following can be released: Vapours and decomposition products with irritating effects.
- 5.3 **Advice for firefighters:** None.
Special Protective Equipment:
 None. Wear positive pressure self-contained breathing apparatus.
 Wear full protective clothing.

* SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures:**
- No hazards resulting from the material as supplied.
- 6.1.1 *For non-emergency personnel:*
 Use personal protective equipment.
- 6.1.2 *For emergency responders:*
 Use personal protective equipment.
- 6.2 **Environmental Precautions:**
 No special environmental precautions required. Take up mechanically and collect in suitable container for disposal.
- 6.3 **Methods and material for containment and cleaning up:**
- 6.3.1 *Methods and material for containment:*
 Take up mechanically and collect in suitable container for disposal.
- 6.3.2 *Methods and material for cleaning up:*
 Take up mechanically
- 6.3.3 **Inappropriate containment or clean-up techniques:**
 None.
- 6.4 **Reference to other sections:**
 See Section 8 / 13.

* SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling:**
- 7.1.1 **Recommendations shall be specified to:**
 No hazards resulting from the material as supplied.
 During processing: Provide sufficient air exchange and/or exhaust in work rooms.
- 7.1.2 **Advice on general occupational hygiene shall be provided:**
 Do not breathe vapour. When using do not eat or drink.
- 7.2 **Conditions for safe storage, including any incompatibilities:**
 No special storage conditions required.
Precautions in Case of Fire and Explosion:
 Normal measures for preventive fire protection.
- 7.3 **Specific end use(s):**
 Brazing alloy

* SECTION 8: Exposure controls/personal protection

- 8.1 **Control parameters:** None.
Exposure Limits: None.
- 8.2 **Exposure controls:** None.
- 8.2.1 **Appropriate engineering controls:**
 During processing: Provide sufficient air exchange and/or exhaust in work rooms.
- 8.2.2 **Personal Protective Equipment**
Respiratory Protection: No hazards resulting from the material as supplied.
 During processing: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with filter P2.

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Hand Protection:	No hazards resulting from the material as supplied. During processing: Leather gloves
Eye Protection:	No hazards resulting from the material as supplied. During processing: Safety glasses
Skin Protection:	Not required.
Further Information:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Thermal hazards:	None.
8.2.3 Environmental exposure controls:	None.

*** SECTION 9: Physical and chemical properties**9.1 **Information on basic physical and chemical properties:**

Appearance:	solid
Colour:	red brown
Odour:	None
Odour threshold:	n.ap.

Safety Relevant Data

pH-value, undiluted:	not applicable
Boiling point / Boiling - range (°C):	not applicable
Melting point / Melting range (°C):	~ 1085
Flash point (°C):	not applicable
Flammability:	not applicable
Ignition temperature (°C):	not applicable
Autoflammability (EC A16):	not applicable
Oxidising properties:	not applicable
Explosion hazard:	not applicable
Explosion limits (Vol.%) lower:	not applicable, upper: not applicable
Vapour pressure:	not applicable
Density (g/ml):	no data available
Solubility (in Water):	insoluble
Partition coefficient, n-Octanol/Water:	no data available
Viscosity:	no data available
Solvent content (m %):	not applicable
Fat solubility:	not applicable

9.2 **Other information:**

Thermal decomposition (°C):	no data available
Vapour density (Air = 1):	no data available
Evaporation rate:	no data available

*** SECTION 10: Stability and reactivity**

10.1 Reactivity:	No hazards resulting from the material as supplied.
10.2 Chemical stability:	Stable at normal conditions
10.3 Possibility of hazardous reactions:	None.
10.4 Conditions to avoid:	None.
10.5 Incompatible materials:	Keep away from oxidising agents, strongly alkaline and strongly acid materials.
10.6 Hazardous decomposition :	None.

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Irritation (eye): None.

Corrosivity: None.

Sensitisation: None.

Repeated dose toxicity: no data available

Carcinogenicity: no data available

Mutagenicity: no data available

Toxicity for reproduction: None..

11.1.2 Substances: No hazards resulting from the material as supplied.**Acute Health Effects:**Ingestion, LD₅₀ rat, (g/kg): not applicableSkin - contact, LD₅₀ rabbit, (mg/kg): NoneInhalation, LC₅₀ rat, (mg / m³, 30 min): None

Skin corrosion/irritation: None

Serious eye damage/irritation: None

Respiratory or skin sensitisation: None.

Germ cell mutagenicity: None

Carcinogenicity: None

Reproductive toxicity: None

STOT-single exposure: None

STOT-repeated exposure: None

Aspiration hazard: None.

*** SECTION 12: Ecological information****12.1 Ecotoxic Effects, Aquatic Toxicity:**

Not water endangering.

12.2 Persistence and degradability:

May be separated mechanically in waste water plants.

12.3 Bioaccumulative potential:

Does not bioaccumulate.

12.4 Mobility in sol:

Does not bioaccumulate.

12.5 Results of PBT and vPvB assessment:

Persistent, bioaccumulative and toxic substances (PBT-substances): None.

Very persistent and very bioaccumulative substances (vPvB-substances): None.

12.6 Other adverse effects:

None.

*** SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Methods of waste treatment of both the substance or mixture and any contaminated packaging**

Recommendation: R3 / D1

Waste - Code - No.: 17 04 - metals (including their alloys). 17 04 07 – blended metals

*** SECTION 14: Transport information**

Transportation by Road or Railway according to ADR/GGVS and RID/GGVE

Transportation by Vessels according to IMDG/GGVSee

Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks: Not dangerous goods

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*** SECTION 15: Regulatory information**

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
TRGS 528 (Germany)

15.2 **Chemical safety assessment:** None.

*** SECTION 16: Other information**

R phrases / H phrases:

None.

Further information to work out the Data sheet:

Data of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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