
	MATERIAL SAFETY DATA SHEET According to 1907/2006/CE	Doc. No. : B-01-001
		Doc. Rev. No. : 03
	Copper-Phosphorous Brazing Alloys Bare Rods, Wires, Foils, Rings, Preforms	Date: 04/01/17
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Section 1.: Identification of the Substance / Mixture and of the Company / Undertaking

1.1 Preparation identification

Silver-Copper-Phosphorous Brazing alloys, supplied as bare rods, wires, foils, rings, preforms, with following codes:

Code	ISO 17672	DIN 8513	EN 1044	AWS A5.8
CuP8	CuP 182	L-CuP8	CP 201	---
CuP8 PLUS	CuP 182	L-CuP8	CP 201	---
CuP8 HP	CuP 182	L-CuP8	CP 201	---
CuP8 HP PLUS	CuP 182	L-CuP8	CP 201	---
CuP7	CuP 180	L-CuP7	CP 202	BCuP-2
CuP7 PLUS	CuP 180	L-CuP7	CP 202	BCuP-2
CuP6	CuP 179	L-CuP6	CP 203	---
CuP6 PLUS	CuP 179	L-CuP6	CP 203	---
CuP5	CuP 178	---	---	---
CuP7Sn	CuP 386	---	CP 302	~BCuP-9
CuP7Sn PLUS	CuP 284	L-Ag15P	CP 102	BCuP-5
Ag0,4CuP	---	---	---	---
Ag0,6CuP	---	---	---	---
Ag2CuP	CuP 279	L-Ag2P	CP 105	---
Ag2CuP PLUS	CuP 279	L-Ag2P	CP 105	---
Ag2CuP HP	CuP 280	---	---	BCuP-6
Ag2CuP HP PLUS	CuP 280	---	---	BCuP-6
Ag5CuP	CuP 281	L-Ag5P	CP 104	BCuP-3
Ag5CuP PLUS	CuP 281	L-Ag5P	CP 104	BCuP-3
Ag5CuP HP	CuP 282	---	---	BCuP-7
Ag5CuP HP PLUS	CuP 282	---	---	BCuP-7
Ag6CuP LP	---	---	---	---
Ag6CuP	CuP 283	---	---	BCuP-4
Ag10CuP	---	---	---	---
Ag15CuP	CuP 284	L-Ag15P	CP 102	BCuP-5
Ag15CuP PLUS	CuP 284	L-Ag15P	CP 102	BCuP-5
Ag15CuP HP	CuP 284	L-Ag15P	CP 102	BCuP-5
Ag15CuP HP PLUS	CuP 284	L-Ag15P	CP 102	BCuP-5
Ag15CuP7	---	---	---	---
Ag18CuP LP	CuP 285	---	---	BCuP-8
Ag18CuP	CuP 286	---	CP 101	---

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1.2 Relevant identified uses of preparation and uses advised against
Brazing alloys.

1.3 Company identification

Company Name: STELLA SRL
 Address: Via Marconi, 26
 City and Country: 21041 ALBIZZATE (VA) - ITALY
 Telephone no.: +39 - 0331 - 985787
 Fax no.: +39 - 0331 - 985803
 Web: www.stella-welding.com
 E-mail of person responsible of Safety Data Sheet: info@stella-welding.com

1.4 Emergency phone number

+39 - 0331 - 985787

Section 2.: Hazards Identification

According to European Regulation 1272/2008/EC these products are articles.

2.1 Classification according to European Regulation no. 1272/2008/EC


The product is not classified as dangerous according to European Regulation no. 1272/2008/EC.

2.2 Label elements according to European Regulation no. 1272/2008/EC

None.

2.3 Other hazards

Prevent exposure to and inhalation of fumes that are generated during brazing operations, by means of mechanical ventilation and/or protective masks. Workers must wear and properly maintain all personal protective equipments supplied, and comply with safety procedures and information. Workers, prior of starting brazing and soldering operations, must be aware of safety procedures to be followed, and must strictly observe those procedures. Body of worker must be completely protected by appropriate clothes (do not use light and/or worn clothes). Brazing and soldering operations may present the risk of generation of dangerous metal oxides and metal vapours and fumes (small particles with approx dimensions of millimetres). Avoid over-heating of product and/or of pieces to be brazed. These products do not contain any PBT or vPvB substances. These products do not contain any SVHC substances.

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Section 3.: Composition / Information on ingredients

Substance	CAS No.	CE No.	REACH Reg. No.	Conc. %	Classification	
					1272/2088/EC	
Silver / Ag	7440-22-4	231-131-3	---	C <= 18	---	---
Copper / Cu	7440-50-8	231-159-6	---	C <= 94	---	---
Phosphorus / P	7723-14-0	231-768-7	---	C <= 8	Flam. Sol. 1 Aquatic Chronic 3	H228 H412
Tin / Sn	7440-31-5	231-141-8	---	C <= 7	---	---

See section 16. of this data sheet for complete description of H Hazard Statements.

Section 4.: First Aid Measures

No dangerous effects for human health are known for this product as supplied, in solid form. It is however recommended to follow general safety rules and procedures.

Inhalation (fumes and dusts):

Remove person from danger area and supply fresh air.

If symptoms persist, consult a doctor. If exposed person is unconscious, keep in a stable position, on one side, during transportation.

Ingestion:

Call immediately a doctor.

Skin contact:

In case of contact with hot or molten product, wash with cold water and apply appropriate first aid measures.

Eye contact:

Wash with flowing water for some minutes, keeping eyes wide open.

Most important symptoms and effects, both acute and delayed:

Fumes generated during brazing may cause respiratory and/or eye irritation.


Indication of any immediate medical attention and special treatment needed:

No data available.

Section 5.: Fire Fighting measures

General information:

These products are not flammable.

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In case of fire: keep product cool with water to avoid decomposition and generation of substances dangerous for health. Always wear complete fire-fighting equipment.

Collect water used for fire extinction and do not release it in drainage systems.

Dispose of contaminated water used for fire extinction as per local laws and regulations.

Recommended fire-extinguishing means:

General means: carbon dioxide, foam, powder and nebulized water.

Un-recommended fire-extinguishing means:

None.

Dangers arising from exposition in case of fire:

Avoid breathing combustion products.

Equipment:

Protective helmet, fireproof clothes, protective gloves (fireproof, cutproof and dielectric), respiratory mask with full face coverage.

Section 6.: Accidental Release Measures

Product as supplied, in solid form, does not present dangers for accidental release.

Section 7.: Handling and Storage

Follow common storage procedures of solid materials.

Section 8.: Exposure Controls / Personal Protection

8.1 Exposition Limit Values


Silver:	TLV: 0,1 mg/m ³
Copper fumes:	TLV: 0,2 mg/m ³
Tin:	TLV: 2,0 mg/m ³

8.2 Exposure Controls

Use of proper technical and safety measures must always be followed.

Keep workplace well ventilated, by means of mechanical air extraction and/or systems for release of exhaust air. If this means are not sufficient to keep the concentration of product below the exposure limit values, wear an appropriate breathing mask.

Personal protective equipments must comply with the following standards.

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Product must be used in closed-loop circuits, or in very well ventilated areas, with strong localized air extraction systems, otherwise it is compulsory to use the prescribed personal protective equipments always in well ventilated areas.

BREATHING PROTECTION

If workplace exposure limit values are exceeded, and when no localized air-extraction is available, always wear a breathing mask with ABEK2P3 type filter for gases, vapours and powders (ref. EN 141).

The use of breathing protection equipments (such as proper masks with cartridges for vapours, dusts and powders) is anyway necessary when no technical means of limiting worker's exposure are used. Remind however that protection level offered by masks is limited.

For high workplace concentration values, or in emergency, or when exposure levels are unknown, wear a compressed-air, open-circuit, autonomous respiratory system (ref. EN 137), or an external air-intake respiratory system, to be used with a full-face mask, a half mask, or a snorkel (ref. EN 138).

HAND PROTECTION

Protect hands with work gloves type Laminate LCT Film (ref. EN 374).

For optimal work-gloves choice, consider: degradation, rupture time, permeation. Gloves have a wear life that varies with length of exposure.

EYES PROTECTION

Wear sealed safety glasses with side protection (ref. EN 166).

SKIN PROTECTION

Wear waterproof, long-sleeved work-suit, and waterproof, professional use, safety shoes (ref. EN 344).

Wash with water and soap after having removed work clothes.

Wash clothes before re-using.

Provide an emergency shower and an emergency eye-washing system.

Section 9.: Physical and Chemical Properties

Physical State:	solid
Appearance:	pink / copper-like colour
Odour:	none
Melting point:	between 650 and 880 °C (depending on alloy)
Density:	between 8 and 8,4 g/cm ³ (depending on alloy)


Section 10.: Stability and Reactivity

Reactivity:

No data available.

Chemical stability:

Products are stable in normal conditions of use and storage.

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Possibility of hazardous reactions:

No data available.

Conditions to avoid:

No data available.

Incompatible materials:

No data available.

Hazardous decomposition products:

No data available.

Section 11.: Toxicological Information

Acute effects: exposition to brazing fumes is dangerous for worker's health, causing fast poisoning by exposition to metal oxides; may be harmful for skin absorption and for ingestion.

For product inhalation, poisoning can be displayed by various symptoms, such as: eyes, mouth, nose, and throat ache and irritation, cough, difficulty in breathing, dizziness, vertigo, nausea and vomiting.

In worst cases, inhalation may cause: inflammation and edema of larynx and of bronchi, chemical pneumonia and pulmonary edema, increase or decrease of heartbeat, excessive salivation or blood sputum, loss of consciousness, behaviour disorders (depression or euphoria).

Brazing fumes may cause irritation of eyes and skin.

Section 12.: Ecological Information

No data available.

Section 13.: Disposal Considerations

No data available.

Section 14.: Transport Information

Product is not dangerous for transport.

LAND (ADR / RID):

Class: ---

UN Number: ---


Packaging group: ---

Label: ---

Name: ---

Packing instr.: ---

Limited quantity: ---

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SEA (IMDG):

Class: ---
UN Number: ---
Packaging group: ---
Label: ---
Name: ---

AIR (IATA-ICAO):

Class: ---
UN Number: ---
Packaging group: ---
Label: ---
Name: ---

Section 15.: Regulatory Information

No data available.

Section 16.: Other Information

Complete Description of H Hazard Statements cited in Section 3.:

H228 FLAMMABLE SOLID.
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

REVISIONS:

This document updates the revision no. 02 dated 13/04/2016.
Updated sections: 1.1

Note for user:

Information contained in this Data Sheet are based on the knowledge available to us at the date of last document revision. Users should verify the suitability and completeness of information with regard to specific use the product. No data contained in this Data Sheet may be regarded as an assurance of any particular specific property of product. As end use of product is not under our direct control, it is the user's responsibility to fully comply with laws and regulations applicable in safety and hygiene. We do not take any responsibility for any un-proper use of product.