

## CuP - AgCuP - CuPSn

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### **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

#### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

B-01-001 Code:

CuP - AgCuP - CuPSn Product name

Brazing alloys, supplied as bare rods, wires, foils, rings, preforms, with following codes: CuP5, CuP6, CuP6 PLUS, CuP7, CuP7 PLUS, CuP8, CuP8 PLUS, CuP8 HP, CuP8 HP PLUS, CuP7Sn, CuP7Sn PLUS, Ag0,4CuP, Ag0,6 CuP, Ag2CuP, Ag2CuP PLUS, Ag2CuP HP, Ag2CuP HP PLUS, Ag5CuP, Ag5CuP PLUS, Ag5CuP HP, Ag5CuP HP PLUS, Ag6CuP, Ag6CuP, Ag6CuP, Ag10CuP, Ag10CuP, Ag10CuP PLUS, Ag15CuP, Ag15CuP PLUS, Ag15CuP HP, Ag15CuP HP PLUS, Ag15CuP7, Ag18CuP LP, Ag18CuP, Ag18CuP PLUS.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Brazing Alloys.

1.3. Details of the supplier of the safety data sheet

STELLA SRL Name Full address Via Marconi, 26 21041 Albizzate District and Country

(VA) **ITALIA** 

Tel. +39-0331-985787 Fax +39-0331-985803

e-mail address of the competent person

responsible for the Safety Data Sheet info@stella-welding.com

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Milano - Ospedale di Niguarda Cà Granda

Tel.: +39 - 02 - 66101029

STELLA SRL

Tel.: + 39 - 0331 - 985787

#### **SECTION 2. Hazards identification**

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

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication:

2.2. Label elements

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.



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### **SECTION 3. Composition/information on ingredients**

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

**COPPER** 

CAS 7440-50-8  $74 \le x < 95$ 

FC 231-159-6

INDEX
Silver

CAS 7440-22-4  $0 \le x < 18$ 

EC 231-131-3

INDEX

**Phosphorus** 

CAS 7723-14-0  $5 \le x < 8,5$ 

EC 231-768-7

INDEX 015-002-00-7

Tin

CAS  $7440-31-5 \quad 0 \le x < 7$ 

EC 231-141-8

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The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary:

Flam. Sol. 2 H228, Aquatic Chronic 3 H412

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious person. EYES and SKIN: Wash with plenty of water. In the event of persistent irritation, get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

#### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters



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GENERAL INFORMATIONUse jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

DEU Deutschland TRGS 900 (Fassung 4.11.2016) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte

DNK Danmark Graensevaerdier per stoffer og materialer

**ESP** España INSHT - Límites de exposición profesional para agentes químicos en España 2017

FRA France JORF n°0109 du 10 mai 2012 page 8773 texte n° 102

**GBR** United Kingdom EH40/2005 Workplace exposure limits

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> TLV-ACGIH **ACGIH 2017**

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SECTION 8. Exposure controls/personal protection .../>>

COPPER											
Threshold Limit \	/alue										
Type	Country	TWA/8h		STEL/15r	STEL/15min						
		mg/m3	ppm	mg/m3	ppm						
MAK	DEU	0,1		0,2		INHAL					
TLV	DNK	1									
VLA	ESP	0,2									
VLEP	FRA	0,2									
WEL	GBR	1		2							
NDS	POL	0,2									
TLV-ACGIH		0,2									

Threshold Limit Value Type Country TWA/8h STEL/15min	
Type Country TM/A/9h STEL/4Fmin	
Type Country TWA/8h STEL/15min	
mg/m3 ppm mg/m3 ppm	
TLV-ACGIH 0,1	

					Tin
Threshold Limit \	/aluo				
Type	Country	TWA/8h		STEL/15r	5min Smin
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		2			

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions. SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### **EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

#### **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance solid Colour pink Odour no odour Odour threshold Not available Not applicable Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Not available Flash point Not applicable Evaporation rate Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available

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#### SECTION 9. Physical and chemical properties .../>>

Vapour pressure Not applicable Vapour density Not applicable Relative density 8.0 - 8.4Solubility not applicable Partition coefficient: n-octanol/water Not applicable Auto-ignition temperature Not available Not available Decomposition temperature Not applicable Viscosity Explosive properties not applicable Oxidising properties not applicable

#### 9.2. Other information

Information not available

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Silver

Stable in normal conditions of use and storage.

Phosphorus

Stable in normal conditions of use and storage.

Tin

Stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

Phosphorus

Avoid exposure to: naked flames, light.

#### 10.5. Incompatible materials

Silver

Keep away from: strong acids, strong bases.

Phosphorus

Keep away from: oxidising agents,bases.

Tin

Keep away from: strong bases, halogens, acids.

#### 10.6. Hazardous decomposition products

Silver

Develops: silver oxide.

#### **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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#### SECTION 11. Toxicological information .../>>

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

**ACUTE TOXICITY** 

LC50 (Inhalation) of the mixture:

LD50 (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

Silver

LD50 (Oral) > 2000 mg/kg Rat - OECD 401 (Acute Oral Toxicity)

Phosphorus LD50 (Oral)

> 15000 mg/kg Rat, Female

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

#### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### **STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

#### **SECTION 12. Ecological information**

#### 12.1. Toxicity



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#### SECTION 12. Ecological information .../>>

Phosphorus

LC50 - for Fish 33,2 mg/l/96h Danio rerio EC50 - for Crustacea 10,5 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 18,3 mg/l/72h Desmodesmus subspicatus

12.2. Persistence and degradability

**COPPER** 

Solubility in water

< 0,1 mg/l

Degradability: information not available

**Phosphorus** 

Degradability: information not available

Tin

Degradability: information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

#### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable



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#### **SECTION 14. Transport information .../>>**

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

#### **SECTION 15. Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (VwVwS 2005)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Sol. 2 Flammable solid, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

**H228** Flammable solid.

**H412** Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level



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#### SECTION 16. Other information .../>>

- PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- FCHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified: 01 / 03.