

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Galflo CuPSn7 Coated

Revision date: 15.04.2019

Product code: PGB_07420

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

1.1. Product identifier

Galflo CuPSn7 Coated

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

Use of the substance/mixture

brazing rod, brazing wire

1.3. Details of the supplier of the safety data sheet

Company name:	Pietro Galliani Brazing S.p.A	
Street:	via Molino Malpasso, 65	
Place:	I-40038 Vergato (BO)	
Telephone:	+39 051 910061	Telefax: +39 051 911055
Responsible Department:		

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

Emergency telephone : NIGUARDA HOSPITAL,
Antipoison Centre +39 02 66101029

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Reproductive toxicity: Repr. 1B

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May damage fertility. May damage the unborn child.

Brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever. Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)

May cause irritation by prolonged inhalation of brazing/welding fumes.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

boric acid

Potassium hydroxide

potassium bifluoride; potassium hydrogen difluoride

Signal word: Danger

Pictograms:



Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H360FD

May damage fertility. May damage the unborn child.



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Precautionary statements

- P501 Dispose of contents/container to waste treatment facility in accordance with local and national regulations .
- P314 Get medical advice/attention if you feel unwell.
- P285 In case of inadequate ventilation wear respiratory protection.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P202 Do not handle until all safety precautions have been read and understood.

Additional advice on labelling

As an article the product does not need to be labelled in accordance with EC-regulations or respective national laws. Although this product does not require a hazard warning label, we recommend that the safety precautions should be observed.

Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label according to this Annex (Annex I GHS), if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous in accordance with the criteria of this Annex .

Instead, the supplier shall provide the information to downstream users or distributors by means of the SDS.

2.3. Other hazards

Welding and brazing processes can cause spatter , melting metal and UV/IR heat can cause burns or start fires.

IARC and NIOSH are of the following opinion:

During welding- and brazing processes formed metallic fumes are suspected of being cancer causing agents.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Base metals and alloys

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
10043-35-3	boric acid			10-50 %
	233-139-2	005-007-00-2	01-2119486683-25	
	Repr. 1B; H360FD			
1310-58-3	Potassium hydroxide			5 - 10 %
	215-181-3		01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			
14075-53-7	potassium tetrafluoroborate			5 - 10 %
	237-928-2		01-2119968922-24	
7440-31-5	Tin			0,1 - 5 %
	231-141-8		01-2119486474-28	
7789-29-9	potassium bifluoride, potassium hydrogen difluoride			0,1 - 5 %
	232-156-2		01-2119960644-32	
	Acute Tox. 3, Skin Corr. 1B; H301 H314			

Full text of H and EUH statements: see section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Take affected person into fresh air.
Consult a physician if necessary.

After contact with skin

In case of contact with skin wash off immediately with plenty of water.
Consult a physician if necessary.

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Rinse mouth. As soon as possible, take phials of calcium chloride and seek hospital.
If swallowed, seek medical advice immediately and show this container or label.

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

No data available

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use fire fighting measures that suit the environment and products stored.

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible. Hydrogen fluoride (HF), Fluorides

5.3. Advice for firefighters

In case of fire, wear suitable respiratory equipment with positive air supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Breathing apparatus (particle filter) only if dust is formed.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with eyes, skin or mucous membrane.
Do not breathe vapours/dust.
Use only in well-ventilated areas.
ANSI Z49.1 Safety in Welding, Cutting and allied processes.



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Further information on handling

When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Keep container dry and tightly closed.

Hints on joint storage

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

brazing rod, brazing wire

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	WEL
16984-48-8	Fluoride (inorganic as F)	-	2.5		TWA (8 h)	WEL
7723-14-0	Phosphorus, yellow	-	0.1		TWA (8 h)	WEL
		-	0.3		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
-	Tin compounds, inorganic, except SnH ₄ , (as Sn)	-	2		TWA (8 h)	WEL
		-	4		STEL (15 min)	WEL

Additional advice on limit values

Designations with OLD are no longer legally valid. These are MAC values that were deleted from TRGS 900. These values were retained as additional information for a risk assessment.

8.2. Exposure controls
Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery and at places where dust or smoke can be generated.

Protective and hygiene measures

At work do not eat, drink and smoke.

Wash hands and skin before breaks and after work.

Eye/face protection

Safety goggles with side protection (EN 166).

Hand protection

Use protective gloves for welders (DIN 4841-4).

Use inner-gloves to prevent from allergic reactions due to direct skin contact.

Protective gloves resistant to chemicals made off polychloropren, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camapren 722> made by www.kcl.de.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Skin protection

Dust resistant protective clothing.



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Respiratory protection

Use suitable breathing apparatus if there is inadequate ventilation. Multi-purpose filter ABEK/P3

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

Physical state:	Solid
Colour:	
Odour:	Odourless
pH-Value:	n.a.

Changes in the physical state

Melting point:	n.a.
Initial boiling point and boiling range:	n.a.
Flash point:	n.a.
Water solubility:	n.a.

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

In contact with acids, may give off poisonous gases.

10.4. Conditions to avoid

Hydrogen fluoride is liberated on heating at high temperatures in the presence of water vapor.

10.5. Incompatible materials

Strong acids and oxidizing agents

10.6. Hazardous decomposition productsIn contact with acids, may give off poisonous gases.
Metallic oxides**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

Brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever. Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)

Risk of fluorose

ATEmix calculated

ATE (oral) 1753,6 mg/kg



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	Potassium hydroxide				
	oral	LD50 333 mg/kg	Rat		
7789-29-9	potassium bifluoride, potassium hydrogen difluoride				
	oral	ATE 100 mg/kg			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes burns.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. May damage the unborn child. (boric acid)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

SECTION 12: Ecological information

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Product is not allowed to discharge into the ground water or aquatic environment.

Low hazard to waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Where possible recycling is preferred to disposal.

Dust and in exhaust systems separated particles dispose of in compliance with local regulations.



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Waste disposal number of waste from residues/unused products

160507 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded inorganic chemicals consisting of or containing hazardous substances; hazardous waste

Waste disposal number of used product

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR); Inland waterways transport (ADN)

14.1. UN number:

No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

No hazardous material as defined by the transport regulations.

14.4. Packing group:

No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

No hazardous material as defined by the transport regulations.

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

No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
boric acid

Restrictions on use (REACH, annex XVII):

Entry 30: boric acid

2004/42/EC (VOC): 0 %

National regulatory information

Additional information

G39- Welding fumes.

SECTION 16: Other information

Changes



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REV. 3.0 : SECTION 3: Composition/information on ingredients: REACH Registration No.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 1B; H360FD	Calculation method

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H360FD May damage fertility. May damage the unborn child.

Further Information

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

Literature:

Kraume, Zober: Arbeitssicherheit und Gesundheitsschutz in der Schweißtechnik. ("Occupational Safety and Health Protection in Welding")



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

