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Safety Data Sheet

1. Supplier and product

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Product and Codes:

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

Code	ISO 17672	EN 1044	AWS A5.8	DIN 8513	GB
Ag60Sn	-	AG 101	-	L-Ag60Sn	Bag60CuZnSn
Ag56Sn	Ag 156	AG 102	BAG-7	L-Ag55Sn	Bag56CuZnSn
Ag55Sn	Ag 155	AG 103	-	L-Ag55Sn	
Ag45Sn	Ag 145	AG 104	BAG-36	L-Ag45Sn	
Ag40Sn	Ag 140	AG 105	BAG-28	L-Ag40Sn	Bag40CuZnSn
Ag38Sn	Ag 138	-	BAG-34	-	
Ag34Sn	Ag 134	AG 106	-	L-Ag34Sn	BAG34CuZnSn
Ag30Sn	Ag 130	AG 107	-	L-Ag30Sn	BAG30CuZnSn
Ag25Sn	Ag 125	AG 108	BAG-37	L-Ag25Sn	Bag25CuZn

Product Use(s): Brazing consumables and related products

2. Hazards identification

2.1 Classification of the mixture:

The product is placed on the market in solid form.

Hazard Class and Category Codes	Hazard Statement Co
Eye Irrit. 2	H319

2.2 Label elements:



Danger

GHS PICTOGRAM:

SIGNAL WORD:

HAZARD STATEMENTS:

PRECAUTIONARY STATEMENTS:

GHS07

Warning

H319: Causes serious eye irritation.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

Contains: Potassium tetrafluoroborate (CAS 14075-53-7).

2.3 Other information

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 should be protected by appropriate 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).

3. Composition/information on ingredients

The product is composed by a silver alloy rod covered, on the external surface, by a layer of deoxidant flux.

Silver alloy rod composition:

Substance	CAS No.	CE No.	Conc. %	Classification 1272/2008/EC
Silver (Ag)	7440-22-4	231-131-3	C ≤ 60	
Copper (Cu)	7440-50-8	231-159-6	C ≤ 40	
Zinc (Zn)	7440-66-6	231-175-3	C ≤ 33	Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Tin (Sn)	7440-31-5	231-141-8	C ≤ 5	

4. First aid measures

Inhalation (fumes and dusts):

Inhalation of excessive quantities of zinc-oxide and/or copper-oxide, copper, zinc fumes may cause metal-oxide fever. Symptoms are similar to flu-symptoms and may appear even after a delay of 10 hours. Normally symptoms disappear after 24 hours. Supply fresh air, supply artificial breathing if necessary, keep warm. If symptoms persist, consult a doctor. If exposed person is unconscious, keep in a stable position, on one side, during transportation.

Ingestion:

Wash mouth thoroughly and call immediately a doctor. Do not induce vomiting.

Skin contact:

Wash with water and soap. The product may cause an allergic skin reaction: in case of irritation consult a doctor. In case of contact with hot or molten product, apply appropriate first aid measures.

Eye contact:

Irritant for the eyes. Remove contact lenses and wash with thoroughly with plenty of water for at least 15 minutes, keeping eyes wide open. In case of irritation consult a doctor.

4.1 Most common symptoms and effects

Inhalation:

May cause nose, throat and lungs irritation.

Ingestion:

May cause intestinal irritation, nausea, vomiting and diarrhea.

Skin contact:

Prolonged skin contact may cause skin irritation.

Eye contact:

Irritant for the eyes. Main symptoms: redness, lacrimation.

5. Fire fighting measures

General information:

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.

6. Accidental release measures

Avoid dust formation. Avoid the product from being released in drainage systems, in superficial waters, in ground waters, or in confined areas.

7. Handling and storage

Handling:

Provide adequate ventilation. Do not smoke, eat and/or drink on workplace during handling and use. Wash hands after use.

Storage:

Store in a dry and well aerated place, if possible in the original closed package.

8. Exposure controls/personal protection.

8.1 Exposition Limit Values

Silver: TLV: 0,1 mg/m³

Copper fumes: TLV: 0,2 mg/m³

Zinc-oxide fumes: TLV: 5,0 mg/m³

Tin: TLV: 2,0 mg/m³

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 these 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. 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 workgloves 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.

9. Physical and chemical properties

Physical State: solid

Melting point: between 620 and 760 °C (depending on alloy) flux: approx. 530 °C.

10. Stability and reactivity

Product is stable in normal conditions of use and storage. In case of fire or thermal decomposition fumes dangerous for human health may be produced, such as: zinc oxide, hydrogen fluoride, boron trifluoride.

Warning: as brazing temperature increases, metal oxide formation strongly increases.

11. Toxicological information

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction

Germ cell mutagenicity: Not classified

Carcinogenicity: May cause cancer

Reproductive toxicity: Not classified

Specific target organ toxicity (both exposures): Not classified

Aspiration hazard: Not classified

12. Ecological information

The product is not biodegradable

13. Disposal considerations

13.1 Waste treatment methods: Dispose of in accordance with local and national regulations.

Waste disposal recommendations: Dispose of contents/container in accordance with local / regional / national / international regulations.

14. Transport information

In accordance with DOT | ADR | RID | ADNR | IMDG | ICAO | IATA

14.1 UN Number: Not a dangerous good in sense of transport regulations

14.2 UN proper shipping name: Not applicable

15. Regulatory information

Dangerous fumes are formed during use.

See information supplied by the manufacturer.

Comply with the safety instructions.

16. Other information including information on preparation and revision of the SDS

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction
P285	In case of inadequate ventilation wear reparatory protection
P280	Wear protective gloves/protection clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER or doctor or physician if you feel unwell
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P302+P350	IF ON SKIN: Gently wash with plenty of soap and water
P501	Dispose of contents/container in according with local/regional/national regulations

Disclaimer

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