

**SAFETY DATA SHEET**

**PRODUCTS RELATED TO THIS MSDS**

POSTED STAINLESS STEEL ARCHWIRE

BRASS POST

SOLDER

**IDENTIFICATION OF THE MATERIAL**

Chemical Nature, Sales Name, Use: Metal Stainless Steel wire

**CHEMICAL COMPOSITION**

**ARCHWIRE**

Element / Weight (%)					
IRON	CHROMIUM	MANGANESE	MOLIBDENUM	CARBON	PHOSPHORUS
Balance	19~23	21~24	0.50~1.50	≤0.80	≤0.03
NICKEL	SULFUR	COBALT	SILICON	NITROGEN	COPPER
≤0.05	≤0.01	≤0.80	≤0.75	≤0.90	≤0.25

**BRASS POST**

Element / Weight (%)	
COPPER	ZINC
70%	30%

**SOLDER**

**Cadmium and lead free Silver Brazing Alloys**

Product Name	AWS A 5.8	AMS	AG	CU	ZN	SN
Silverbraz 56	Bag-7	4763	56	22	17	5

**REACTIVITY**

⇒ **Stability and reactivity:** stable and not reactive

**SPECIAL PROTECTION INFORMATION**

**ORTHODONTIC MANUFACTURER SIA SRL**

**Sede Legale:** Via Aristide Leonori,113 - 00147 Roma **Uffici e Stabilimento:** Zona Ind.le snc - 81050 Rocca d'Evandro (CE) Italy  
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Material in the form shipped require no special protection for handling. For specific processing, the following should be observed:

**FIRE REMOTENESS REQUIREMENT:** General-Recommended.

**SPECIAL PRECAUTIONS:** Use good housekeeping practices to prevent accumulation of dust, to keep airborne dust wire shards or scrap wire at a minimum. The information set forth on this MSDS is believed to be accurate and represents the best information currently available to SIA Orthodontic Manufacturer. However, SIA Orthodontic Manufacturer makes no representation or warranties regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, cost, or expense that may arise out of the use of, or reliance on the information by any person. Users should make their own investigations to determine the suitability of the information for their particular purpose.

**FIRST AID MEASURES**

**Inhalation:** Use local ventilation and/or respiratory protective equipment to limit exposure to airborne dusts.

**Skin contact:** Exposure or repeated contact may irritate the skin. Avoid frequent and prolonged contact. Wash with soap and water.

**Ingestion:** if large amount is swallowed, get medical attention.

**Eyes:** Flush eyes with water.

**FIRE FIGHTING MEASURES:**

Flash point: N/A Flammable limits: Upper explosive limit (uel)% : N/A Lower explosive limit (lel)(%): N/A Vapor Pressure 20°C: N/A Solubility: in water (20°C) insoluble, in Organic Solvent (20°C) insoluble. Extinguishing media: In finish form, parts are not combustibile Special firefighting procedures: None

**HAZARDS IDENTIFICATION**

**Information on toxicity:** Product tested for bio-compatibility with results concluding negative toxicological reaction.

**CAUTION:** The product may be sterilized by autoclave, and to be used from professional personnel only. *If a patient reaction is suspected, contact a physician.*

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**SOLDER**

Ingredient	CAS NO.	PEL mg/m <sup>3</sup>	TVLmg/m <sup>3</sup>
Silver (Metal)	7440-22-4	.01	0.1
Silver (Soluble)	7440-22-4	0.01	0.01
Copper (Dust)	7440-50-8	1.0	1.0
Zinc (Oxide)	1314-13-2	5.0	5.0 (fume)
Tin (Oxide)	7440-31-5	2.0	2.0
Nickel	7440-31-5	2.0	2.0
Manganese (Fume asM)	7439-96-5	1.0	1.0

**Silver:** Chronic exposure may produce argyria, a permanent blue-gray discoloration of the skin, eyes, mucous membranes, and the respiratory tract. Solder for Posted Archwires/Brazing Alloy

**Copper:** Acute exposure may cause respiratory tract irritation, fever, muscle ache, chills, cough, weakness, and a metallic taste. Chronic exposure may cause damage to the liver, kidney, spleen, pancreas, and brain.

**Zinc:** Acute exposure of zinc oxide fume may cause respiratory tract irritation and “metal fume fever”, which is characterized by one or more of the following symptoms: metallic taste, dry throat, cough, chills, fever, tightness of chest, dyspnea, headache, nausea, vomiting, and fatigue.

**Tin:** Exposure to tin dust and fume by inhalation can cause stannosis, a benign pneumoconiosis, as well as a possible dyspnea and upper respiratory tract irritation.

**TOXICOLOGICAL INFORMATION:** None

**ECOLOGICAL INFORMATION:** None

**SPILL OR LEAK PROCEDURE STEP TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED:** Fine material should be swept or vacuumed. Avoid using compressed air to maneuver spills or leaks of dusty material as this may likely cause eye contamination.

**DISPOSAL CONSIDERATION:** Dispose of in accordance with applicable federal, state, and local regulations. **NOTE:** TREAT USED ARCHES AS BIOHAZARDOUS WASTE.

**REGULATORY INFORMATION**

⇒ **Hazardous:** none.

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## SCHEMA SICUREZZA (Medical Safety Data Sheet)

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Modello 5/1 Revisione 0  
Data 02/08/2018  
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SAFETY DATA SHEET

### FURTHER INFORMATION

⇒ **General information:** The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.

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