

**1. INDICATIVE ELEMENTS OF THE PRODUCT**

Denomination	Soldering powder
Commercial denomination	Soldering powder
Producer/Distributor	Italimpianti Orafi S.p.A.

**2. COMPOSITION/INFORMATION ON THE INGREDIENTS**

	%	C.A.S. n°	CEE n°
Zn	60÷90	7440-66-6	231-175-3
Cu	5÷30	7440-50-8	231-159-6
Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	1÷5	1303-96-4	215-540-4
Red phosphorus	1÷5	7723-14-0	231-768-7
Boric acid	1÷5	10043-35-3	233-139-2

**3. INFORMATION ON POSSIBLE DANGERS**

R 10-11-15-16 S 7/8-43

**4. FIRST AID MEASURES**

If the powder comes into contact with the eyes, wash carefully with water.

If the powder comes into contact with the skin, wash with soap and water

If the powder is ingested, drink ½ Lt of water and then cause vomit.

**5. FIRE REGULATIONS**

In case of fire, use dry sand or a powder extinguisher for metals. DO NOT USE WATER.

**6. MEASURES TO TAKE IN CASE OF ACCIDENTAL DISCHARGE**

Wet with water, add inert absorbent materials, gather up the product without raising powders, use the appropriate masks

**7. HANDLING AND STORAGE**

Easily inflammable gases can be released if the product comes in to contact with water.

Store in a dry cool place with the containers well closed.

Avoid contact with oxidising substances (nitrates, chlorates and peroxides)

Handle with care and possibly with wooden or plastic tools.

**8. EXPOSURE CONTROL - INDIVIDUAL PROTECTION**

Use appropriate gloves and masks where necessary.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Powder
Form	Irregular grains
Colour	Grey
Molecular weight	Not applicable
Density (g/cm <sup>3</sup> )	7,2 ÷ 7,3
Apparent density (g/cm <sup>3</sup> )	2,3 ÷ 3
Dimensions (micron)	<100
Melting point (°C)	450÷600
Boiling point (°C)	1600÷1700
Flash point (°C)	1000
Limit of exposure in air (g/m <sup>3</sup> )	min. 480

**10. STABILITY AND REACTIVITY**

In normal conditions the product is stable.

Burns in air with the formation of phosphorus anhydride.

Mechanical friction can ignite it

If the product comes in to contact with water, it might react and give off easily flammable gases.

**11. TOXICOLOGICAL INFORMATION**Limit of exposure TLV-TWA (mg/m<sup>3</sup>)

1

**12. ECOLOGICAL INFORMATION**

Water pollution: maximum limit (mg/dm<sup>3</sup>) 0,1  
Atmospheric pollution: maximum limit (mg/m<sup>3</sup>) 5 if Q > 25 g/h

**13. CONSIDERATIONS ON DISCHARGING THE PRODUCT**

Transport, treatment and storage must be done according to the national and international laws.  
Discharge any residuals at an authorised dump.  
The combustion must be done inside incineration furnaces fitted with acid fume scrubbers.

**14. INFORMATION ON THE PACKING AND TRANSPORT**

The transport isn't subject to any particular norm.

**15. INFORMATION ON THE REGULATIONS**

R10-15

**16. OTHER INFORMATION**

The product doesn't contain any radioactive substances as a tracer and is free of both cancerogenic and CFC based products.

This safety certificate refers to the specific material shown herein and does not refer to a combined use with other materials.

The above information is given without fee and is intended to be used by people with technical capacities and at their discretion and risk.

As the conditions in which the powder is used are out of our control, we do not give any guarantee, explicit or implicit, and we do not assume any responsibilities regarding the use of this information.

Nothing herein must be taken as a licence to work excluding any recommendations or norms.