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EC-Material Safety Data Sheet according to 2001/58/EG  
EC Date..... : 25 Feb 08  
Release..... : 08.0

## S95.5 Cu lead-free No-Clean solder wire

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### 1. IDENTIFICATION OF THE PRODUCT and OF THE ENTERPRISE

Chemical name: Solder wire

<b>Manufacturer</b>	Cobar Europe BV PO Box 3251 4800 DG Breda Holland	<b>Agent</b>	
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### 2. INFORMATION ON INGREDIENTS/COMPOSITION

Ingredients	Classification	Weight %	CAS-No	TLV-value
Tin		94.7	7440-31-5	2.00 mg/m <sup>3</sup>
Silver		4	7440-22-4	0.01 mg/m <sup>3</sup>
Copper		0.5	7440-50-8	1.00 mg/m <sup>3</sup>
High molecular weight alcohols		< 0.8	112-34-5	No TLV established

### 3. HAZARDS IDENTIFICATION

Eyes	A high concentration of liquid, mist, or vapor may cause irritation of the connective tissue.
Skin	Repeatedly or continuous contact may decrease the skin, that may lead to irritation and allergies. Absorption of harmful substances is unlikely.
Choking	Depression of the central nervous system. An occurring symptom is amongst others alcohol poisoning. Effects of overexposure may be nausea, vomiting, tummy ache, dizziness, and unconsciousness.
Inhalation	Inhalation or vomiting may cause severe lung damage.

### 4. FIRST AID MEASURES

Eye contact	Flush with copious warm water for at least 15 minutes, with open eye. Call physician at once.
Skin contact	Wash with soap and water.
Ingestion	Call physician at once. Drink a lot of water. DO NOT induce vomiting.

### 5. EXTINGUISHING MEASURES

Proper extinguishing media	Water, carbon dioxide, dry powder, foam.
Improper extinguishing media	Do not use jet of water.

### 6. MEASURES TO EXPOSURE OF THE PRODUCT

Cleaning procedures	Absorb with appropriate diminishing material.
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### 7. HANDLING AND STORAGE

Handling	not applicable
Storage	Keep in cool, well-ventilated area away from heat or ignition source. This should be done in accordance with the applicable laws and regulations.



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### 8. EXPOSURE CONTROLS/PERSONAL EXPOSURE

Control parameters	not applicable
Respiratory protection	An exhaust system is recommended.
Hand protection	The wearing of solvent-resistant gloves (butylrubber) is recommended.
Eye protection	Safety glasses with side-shields.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	wire
Color	grayish
Smell	aromatic
Boiling point at °C	> 100
Melting point at °C	> 217
Flashpoint at °C	93
Inflammability limits (vol. % in air)	not applicable
Solubility in water (mg/l)	none
Vapor pressure at 50 °C [kPa]	0.1
Vapor density (air = 1)	5.0
Density at 20 °C	3.5 - 4.0
Inflammability	not applicable
Ignition temperature at °C	> 400
Evaporation rate	not applicable

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### 10. STABILITY AND REACTIVITY

Stability/reactivity	Stable product at normal conditions.
Conditions to avoid	High temperatures, dampness.
Materials to avoid	Strong oxidizers, water.
Hazardous decomposition products	Traces of aldehyde, CO, CO <sub>2</sub> .

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### 11. TOXICOLOGICAL INFORMATION

Under specific conditions (oxidation, acids) there is a possibility for the release of heavy metals from the wire composition.

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### 12. ECOLOGICAL INFORMATION

The organic compounds of the product are slightly biodegradable. Under the influence of oxidizers, and acids one has to take into account the release of metals.

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### 13. DISPOSAL CONSIDERATIONS

Product	Waste disposal could be done by incineration in furnace in accordance with the applicable laws, and regulations.
Hazardous waste number	EU 10.04.05. Since regulations vary, consult applicable regulations, or authorities before disposal.



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### **14. TRANSPORT INFORMATION**

UN number	not applicable
ADR/RID class	not applicable
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GGVS/GGVE	not applicable
IMDG-packaging group	not applicable
IMDG-class	not applicable
IMDG-Marine pollutant	not applicable
IMDG-EmS number	not applicable
IMDG-MFAG-table number	not applicable
IATA packaging group	not applicable
IATA class	not applicable
GGVS	not applicable

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### **15. REGULATORY INFORMATION**

Risk-phrase	R36/38: irritating to eyes and skin. R42/43: may cause sensitization by inhalation and skin contact.
Safety-phrase	S2: keep out of the reach of children. S23: do not breathe gas/fumes/vapor/spray. S24/25: avoid contact with skin/eyes. S36/37: wear suitable protective clothing/gloves.

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### **16. OTHER INFORMATION**

Further information	Instruction to staff according to Act Dangerous Goods, part 3, paragraph 14 and next.
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### **Disclaimer**

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