



**Cobar Europe BV**  
PO Box 3251  
4800 DG Breda, Holland

Tel +31 (0) 76 544 55 66  
Fax +31 (0) 76 544 55 77  
Internet: [www.cobar.com](http://www.cobar.com)

EC-Material Safety Data Sheet according to 2001/58/EG  
EC Date..... : 20 Sep 06  
Release..... : 06.1

## SAC4 lead-free No-Clean solder cream

1/3

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

Chemical name: Solder paste

<b>Manufacturer</b>	Cobar Europe BV PO Box 3251 4800 DG Breda Holland	<b>Agent</b>	
<b>Emergency</b>	phone : +31 (0)76 544 5566 fax..... : +31 (0)76 544 5577	<b>Emergency</b>	phone : fax..... :

### 2. INFORMATION ON INGREDIENTS/COMPOSITION

Ingredients	Classification	Weight %	CAS-No	TLV-value
Tin	--	86.3	7440-31-5	2.00 mg/m <sup>3</sup>
Silver	--	3.4	7440-22-4	0.10 mg/m <sup>3</sup>
Copper	--	0.6	7440-50-8	1.00 mg/m <sup>3</sup>
Synthetic resins	--	< 6	65997-05-9	No TLV established
High molecular weight alcohols	Xi	< 6	112-34-5	50 mg/m <sup>3</sup>

### 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 or vomiting may cause severe lung damage.
Inhalation	Liquid, mist, or vapor may cause dizziness and headache.

### 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	COLD CREAM: wash with soap and water. Scrub with brush. Infected clothing must be washed in case of reuse. HOT CREAM: apply ice on affected area. Consult physician in case of blisters appearing, or irritation persists.
Ingestion	Call physician at once. Drink a lot of water. DO NOT induce vomiting.
Inhalation	Fresh air. Keep calm.

### 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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2/3

### 7. HANDLING AND STORAGE

Handling	Use in well-ventilated areas; avoid breathing vapors. Keep containers closed when not in use. No food or smoking while working with creams. Wear gloves.
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. Store at 5 °C in separate refrigerator. Do not store with food.

### 8. EXPOSURE CONTROLS/PERSONAL EXPOSURE

Control parameters	not applicable
Respiratory protection	not applicable
Hand protection	Solvent-resistant gloves (butyl rubber).
Eye protection	Safety glasses with side-shields.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	paste
Color	metallic
Smell	alcoholic
Boiling point at °C	218
Melting point at °C	> 100
Flashpoint at °C	93
Inflammability limits (vol. % in air)	not applicable
Solubility in water (mg/l)	none
Vapor pressure (hPa) at 20 °C	0.1 mmHg
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

### 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> .

### 11. TOXICOLOGICAL INFORMATION

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

### 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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3/3

### 13. DISPOSAL CONSIDERATIONS

Product	Waste disposal could be done by incineration in furnace in accordance with the applicable laws, and regulations.
Hazardous waste number	14.03.05.(paste and with paste contaminated packaging and tissues). 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
ADR/RID number	not applicable
ADR/RID	not applicable
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. 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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