

## Material Safety Data Sheet (according to EC Directive 2001/58/EEC) 1. Identification of the substance/preparation and of the company/undertaking

**Trade name: Swissmetal E 63 FS**

**Use of the substance:** Semi-finished product for further processing

**Date of issue:** 20.04.2008

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## 2. Composition/information on ingredients

The described substance is pure: No

**Chemical characterization:**

Metal in compact form

Material code (DIN CEN/TS 13388:2004): CuZn37

Material number (DIN CEN/TS 13388:2004): CW508L

JIS : C 2700

**Hazardous ingredients:**

CAS-No.	Chemical name	Cont. from	to	Unit	Cl.1	Cl.2	Cl.3	R-Phrases	Index-No.	EC-No.	LD-No.
7440-50-8	Copper	62	64	%						231-150-8	
7440-66-6	Zinc		balance	%						231-175-3	

## 3. Hazards identification

**Identification of hazards:**

This product does not require labelling in terms of preparation guideline 1999/45/EC.

**Critical hazards to man and environment:**

Semi-finished products in copper or copper-alloys, as offered for sale present no health hazard to man or for aquatic environment.

However, when being used or further processed, compounds, dusts and fume may be developed, workplace-related limiting values apply (we refer to point 8).

## 4. First-aid measures

**General information:**

No acute health hazards exist during handling of semi-finished products in copper or copper alloys.

No special first aid measures and no medical spot aid are necessary.

## 5. Fire-fighting measures

### Suitable extinguishing media:

Semi-finished products in copper and copper alloys are unflammable.  
Match the extinguishers with the ambient conditions.

### Extinguishing media which must not be used for safety reasons:

Water in case of liquid melt.

### Special protective equipment for firefighters:

In case of liquid melt use protective equipment acc. to DIN EN 531:1998.

## 6. Accidental release measures

### Further information:

Not relevant for semi-finished products in copper and copper alloys.

## 7. Handling and storage

### Handling

#### Precautions for safe handling:

No special protective measures for handling necessary.

Filtering extractors and/or personal protection must be provided if dusts or fume are formed during further processing, see point number 8.

### Storage

#### Design for storage rooms and vessels:

No special requirements.

## 8. Exposure controls/personal protection

### Exposure controls

#### Information on the system design

Filtering extractors are recommended if dusts or fume are formed. Therefore the technical rules for dangerous

substances (TRGS 300, TRGS 402, TRGS 403) have to be considered.

#### Ingredients with exposure limit values

#### Occupational exposure limits (VLA) with Excursion Limits (LD), Biological limits (BVL)

CAS-No.	Chemical name	VLA	Unit	VLA (ppm)	LD	Notes
0000-00-0	Copper and its compounds	1	mg/m <sup>3</sup>		4	Occupational exposure limit value (AGW) referring of respirable fraction.
7440-50-8	Copper fume	0.1	mg/m <sup>3</sup>		4	Occupational exposure limit value (AGW) referring of alveolar fraction .
000000-00-0	General dust limit E	10	mg/m <sup>3</sup>			Occupational exposure limit value (AGW) referring of respirable fraction.
000000-00-0	General dust limit A	3	mg/m <sup>3</sup>			Occupational exposure limit value (AGW) referring of alveolar fraction .
000000-00-0	Fumes containing zinc (calculated as zinc oxide)	2	mg/m <sup>3</sup>		2	Method of working temperature > 850°C for the rest. Occupational exposure limit value (AGW) referring of alveolar fraction.

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CAS-No.	Chemical name	VLA	Unit	VLA (ppm)	LD	Notice
000000-00-0	Fumes containing zinc (cal. as zinc oxide : for the rest)	1	mg/m <sup>3</sup>		2	Method of working temperature >850°C cast process, flame gunning, hard soldering, welding procedure and thermal cutting process. Occupational exposure limit value (AGW) referring of alveolar fraction .

## Personal protection

**Respiratory protection:** Use respirator mask (P2-/P3-filters) when work-place-limits are exceeded (see BGR 190).

**Hand protection:** Protective gloves are recommended, depending upon how the semis are further processed (see BGR 195).

**Eye protection:** Protective goggles are recommended, depending upon how the semis are further processed (see BGR 192).

**Body protection:** Wear suitable protective clothing, depending upon how the semis are further processed (see BGR 189).

## Protection and hygiene measures:

Normal hygiene measures at the workplace are to be observed. Do not eat, drink, smoke while working.

## 9. Physical and chemical properties

**Form:** solid

**Colour:** gold shining

**Odour:** Odourless

**Value/Range: Unit: at/for Method**

**Melting point/melting range** 900 to 920 °C *literature*

**Density:** 8,44 g/cm<sup>3</sup> at 20 °C *literature*

### Further information:

Other safety-relevant data are not applicable in the commercial form and depend upon the further processing of the semis.

## 10. Stability and reactivity

### Materials to avoid:

**Acids:** dangerous gases after contact with acids, according to the behaviour and concentration of the acid.

### Hazardous decomposition products:

No hazardous decomposition products known.

## 11. Toxicological information

### Toxicological tests

#### Acute toxicity

According to our knowledge there are no information about acute and chronic toxicity.

#### Further information:

This product does not require labelling in terms of preparation guideline 1999/45/EC.

## 12. Ecological information

### Ecotoxicological effects

#### Further information:

Semi-finished products in copper and copper alloys are not hazardous for water.

(WPC No. 1443: "Metals as far as they are solid, not in colloidal solution and not reacting with water and atmospheric oxygen").

#### Further ecological information

**General information:**

For semi-finished products in copper and copper-alloys no information regarding ecology is suitable, as they are practically insoluble in water.

**13. Disposal considerations****Product****Product Recommendation:**

Collect all clean alloy scraps and return them to the scrap dealer.

European waste code (AVV):

12 01 03 non-ferrous metal filings and turnings

16 01 18 non-ferrous metal

**14. Transport information****Further information****Further information:**

No national and international transport restrictions.

**15. Regulatory information****Labelling****Classification: -****Special labelling of certain preparation:**

The semi-finished product is not subject to identification according to Preparations Directive 1999/45/EC.

**National measures**

**Water hazard class: - VwVwS:** Classification according annex 1, identification number 1443

**16. Other information****Further information:**

All data are based upon our current knowledge to provide a basis for safety arrangements according to the semifinished product. The available informations are compiled in all conscience and therefore we do not assume any responsibility to completeness. The methods and conditions for storage, use and disposal after delivery of our product are outside our competence. Therefore we do not assume any responsibility for damage and/or costs which are somehow linked with the storage and the use of our product, as well as the disposal of swarf resulting from production.

**Database:**

DIN CEN/TS 13388:2004

TRGS 900

Working list TRGS 900 (UA III)

EC Preparation Directive 1999/45/EC

Administrative regulations for hazardous substances to water (VwVwS)

European waste code (AVV)

The safety-data-sheet was completely revised.

**The data sheet issuing section: Product Management**

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