



# Produkte und Dienstleistungen rund um die Orbitalschweißtechnik

*Made in Germany*

## Material Safety Data Sheet Tungsten's

Radiation free tungsten (Revised on 01.04.2008)

### 1. Material/preparation and firm's name

**Designation:** Tungsten product WC20

### 2. Composition/details of the constituents

**Composition:** 98-99% tungsten, 1-2% oxide of Ce, La, Zr

**Dangerous constituents:** none

### 3. Possible dangers

**Danger designation:** none

### 4. First aid measures

**After inhaling:** Bring out into the fresh air

**After skin contact:** Thoroughly wash away dust with soap

### 5. Fire precautions

**Suitable extinguishants:** Water or fire extinguisher

**Special danger:** No danger from the product

### 6. Action to be taken if it is accidentally released

**Precautions for people:** Avoid dust spreading, ensure sufficient ventilation

### 7. Handling and storage

**Handling:** Avoid formation of dust. If tungsten alloys are being heat treated draw off the sublimate.

**Storage:** No particular measures are necessary.

### 8. Exposure limitation and staff protection equipment

**Maximum workplace concentration:** 15mg/m<sup>3</sup> (total dust). Install extraction equipment in workplaces that heat treat tungsten alloys.

**Personal protection equipment:** If there is heavy sublimate formation, use breathing masks.

### 9. Physical and chemical properties

**Appearance:** Grey solid material.

**Melting point:** up to 1450 - 3410°C

**Density:** about 19.2g/cm<sup>3</sup> at 20°C

### 10. Stability and reactivity

Tungsten alloys oxidise or sublime when heated in air

### 11. Toxicity details No toxic effects known

### 12. Ecological details No ecological effects known

### 13. Advice on disposal Dispose of residues as scrap metal

### 14. Transport information

No special precautions necessary

### 15. Regulations No special regulations

### 16. Other information

The above information corresponds to our current knowledge, it does not, however, guarantee that certain product properties are observed in a legally binding way