

**1. Description of substances, preparation and company**

**Company:** ARC Welding & Cutting GmbH & Co. KG  
Friedrich-Ebert-Straße 1  
36251 Bad Hersfeld  
Germany  
Tel. + 49 6621-79 86 400

**Product identification:** WR2  
**Colour marking:** turquoise

**Product application:** Tungsten electrode for TIG welding

**2. Information on components**

**Chemical characteristics:** Tungsten W with 1,8-2,2% various rare-earth oxides

**Hazardous substances:** N/A

**3. Potential dangers**

N/A

Other dangers depending on welding process.

**4. First aid measures**

**after inhalation:** In case of prolonged inhalation of welding fume the persons concerned have to be supplied with fresh air. If irritation persists contact a doctor.

**after contact with the skin:** N/A

**after contact with the eyes:** Rinse eyes thoroughly and contact a doctor

**5. Measures necessary in the case of fire**

N/A

**6. Measures necessary in the case of accidental emissions**

N/A

**7. Handling and storage**

**Handling:** During TIG-welding, adequate ventilation and air circulation must be provided together with an exhausting device to absorb welding fume.

**Storage:** Store in a dry place

**8. Limitation of exposure and personal protective equipment**

**Exposure limits:** N/A

**Personal protective equipment:**

**Respiratory protection:** not necessary when adequate ventilation is provided

**Hand protection:** Welding gloves

**Eye protection:** Welding glasses or welding

**9. Physical and chemical properties**

**Form:** bar shaped

**Colour:** metallic grey

**Smell:** scentless

**Evaporating point:** approx. 5.900°C

**Melting point:** approx. 3.400°C

**Flash point:** N/A

**Inflammability:** N/A

**Ignition temperature:** N/A

**Explosion limits:** none

**Fire supporting characteristics:** none

**Steam pressure:** N/A

**Density:** WR2: 18,6 g/cm<sup>3</sup>

**Solubility in water:** non soluble

**Miscellaneous:** none

**10. Stability and reactivity**

**Conditions to avoid:** N/A

**Substances to avoid:** N/A

**Dangerous decomposition**

**Products:** N/A

**11. Information on toxicology:** N/A

**12. Environmental information:** N/A

**13. Instruction for disposal:** N/A

**14. Transport regulations:** N/A

## **15. Regulations**

Regulations only applicable and valid for TIG welding procedure

## **16. Miscellaneous**

All information is based on current state of knowledge; this information does not represent any guarantee of product properties and does not constitute any contractual legal obligation.

Products may only be used as mentioned. If the products are used improperly risks which are not described in the safety data sheet are possible.

Information is provided here in a way which is best understood and acted upon by qualified personnel.

According to definitions found in EN-60204-1:

Qualified personnel are persons who, based on their special training, knowledge, experience and due to their knowledge of relevant standards, are able to assess the tasks assigned to them and identify possible dangers.