

# Safety Data Sheet



according to Regulation (EU) No. 1907/2006

## welding material, baseley alloyed

Print date : 27.03.2009

Product code : 9513

Page 1 of 5

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

welding material, baseley alloyed

#### **product name**

DURA OKs 448 Fe, DURA OKs 448 ELK, DURA OKs 448 FD

#### Use of the substance/preparation

tungstencarbide-based welding material for industrial purposes

#### Company/undertaking identification

Company name : Duraweld Schweisstechnik Inh. Yasar Özefe  
Street : Hoepfnerstr. 101  
Place : D-47809 Krefeld, Germany  
Telephone : +49 (0) 21 51/54 89 89  
e-mail : info@duraweld-schweisstechnik.de  
Internet : www.duraweld.de  
Emergency telephone : +1-800-424-9300 (Chemtrec Emergency)

### 2. Hazards identification

#### **Classification**

Indications of danger : Harmful

R-phrases :

May cause sensitization by inhalation and skin contact.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

The data available do not support any physical or chemical hazard. May be harmful. May be irritating.

May cause sensitization by inhalation and skin contact. May be harmful with intended application by arising ozone and nitrogen oxides.

#### **Explication of special hazards for human health and environment**

The data available do not support any environmental hazard.

### 3. Composition/information on ingredients

#### **Chemical characterization ( preparation )**

tungsten carbide-based stick electrode

#### **Hazardous components**

| EC-No.    | CAS-No.    | Chemical name    | Quantity | Classification |
|-----------|------------|------------------|----------|----------------|
| 235-123-0 | 12070-12-1 | tungsten carbide | < 70 %   |                |

Full text of each relevant R phrase can be found in heading 16.

### 4. First aid measures

#### **After inhalation**

Apply fresh air. If irritation of the respiratory passages, due to the product, occurs: call a physician.

#### **After contact with skin**

Lather with soap and rinse well with water.

#### **After contact with eyes**

Remove contacts. Rinse well with plenty of luke-warm water. Subsequently consult an ophthalmologist.

#### **After ingestion**

Wash out mouth with water. Make affected person vomit if conscious when large quantities swallowed.

# Safety Data Sheet



according to Regulation (EU) No. 1907/2006

## welding material, baseley alloyed

Print date : 27.03.2009

Product code : 9513

Page 2 of 5

### 5. Fire-fighting measures

#### Suitable extinguishing media

metal-fire-drencher, dry sand

#### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus.

### 6. Accidental release measures

#### Personal precautions

Wear suitable protective clothing and gloves (filter mask). Prevent formation of clouds of dust. Aerate closed rooms. Follow safety measures in section 7 and 8.

#### Environmental precautions

Prevent dispersion. Do not empty into drains or the aquatic environment.

#### Methods for cleaning up/taking up

Collect spilled material in sealable containers.

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Prevent formation of clouds of dust. Wear suitable protective clothing and gloves.

#### Storage

##### Requirements for storage rooms and vessels

Store only in original container. Keep in a cool, dry, well-ventilated place. Local exhaust required.

##### Advice on storage compatibility

Store in a fair distance from oxidizing substances and acids.

Storageclass (VCI) :

11

### 8. Exposure controls/personal protection

#### Exposure limit values

##### Additional advice on control parameters

Formation of ozone and nitrogen oxides on regular use by plasma flame. Leading component: ozone (CAS-Nr. 10028-15-6). Exposure limit value (GER) 0,1 ppm. Exposure limit value (GB) 0,2 ppm.

Exposure limit value (USA) 0,05 ppm.

#### Exposure controls

##### Occupational exposure controls

Local exhaust required.

##### Protective and hygiene measures

When using do not eat, drink or smoke.

##### Respiratory protection

During spraying wear suitable respiratory equipment (filter mask).

##### Hand protection

Wear suitable protective clothing and heat-insulated gloves. Avoid contact with skin.

##### Eye protection

Safety goggles and dark lenses as appropriate to the thermal spray process.

# Safety Data Sheet



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## welding material, baseley alloyed

Print date : 27.03.2009

Product code : 9513

Page 3 of 5

### 9. Physical and chemical properties

#### General information

Physical state : dick electrode  
Colour : light to dark grey  
Odour : odourless

#### Important health, safety and environmental information

pH-Value : not applicable Test method

#### **Changes in the physical state**

Melting point : approx. 1010 bis 1025 °C  
Boiling point : > 2900 °C  
Flash point : not applicable

#### **Flammability**

Lower explosion limits : according 92/69 EWG,  
Upper explosion limits : A10: not applicable  
not identified  
not identified

#### **Oxidizing properties**

according 92/69 EWG, A17: not applicable

Vapour pressure : negligible  
Density : 2 - 6 g/cm<sup>3</sup>  
Water solubility : not soluble  
Solubility in other solvents : not identified

#### Other information

Auto-ignition temperature : according 92/69 EWG,  
A16: not applicable  
Solid :  
Gas :

### 10. Stability and reactivity

#### **Conditions to avoid**

stable under normal conditions

#### **Materials to avoid**

oxidizing and acidic material

#### **Hazardous decomposition products**

Formation of ozone and nitrogen oxides on regular use by plasma flame. This reaction is independent to material used.

### 11. Toxicological information

#### **Acute toxicity**

No toxicological information is available on the product nor on any of its ingredients.

#### **Sensitising effects**

Exposure to high concentrations may lead to sensitizing action to the skin and airways. May lead to allergic or irritative reactions on very sensitive persons.

#### **Severe effects after repeated or prolonged exposure**

may be irritant to mouth, throat and esophagus on prolonged exposure.

#### **Further information**

may be harmful through products of decomposition on regular use (see section 10)

# Safety Data Sheet



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## welding material, baseley alloyed

Print date : 27.03.2009

Product code : 9513

Page 4 of 5

### 12. Ecological information

#### Ecotoxicity

No ecological information is known on the product nor on the ingredients

### 13. Disposal considerations

#### Advice on disposal

Disposal according to the local legislation. Waste of residues: Keep waste separate. Because of possible pollution, remove as industrial waste or hazardous waste. Contaminated packaging: Keep waste separate. Because of possible pollution, remove as industrial waste or hazardous waste.

#### Waste disposal number of used product

12101 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS

#### Waste disposal number of contaminated packaging

12101 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS

### 14. Transport information

#### Land transport (ADR/RID)

##### Remarks (land transport)

Free for transport regulations.

#### Inland waterways transport

##### Remarks (inland waterways transport)

Free for transport regulations.

#### Marine transport

##### Remarks (marine transport)

Free for transport regulations.

#### Air transport

##### Remarks (air transport)

Free for transport regulations.

### 15. Regulatory information

#### Labelling

##### R phrases

42/43 May cause sensitization by inhalation and skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

##### S phrases

22 Do not breathe dust.

36/37 Wear suitable protective clothing and gloves.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

##### Additional advice on labelling

No obligation of labelling.

#### National regulatory information

Water contaminating class : - - not water contaminating

### 16. Other information

# Safety Data Sheet



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## welding material, baseley alloyed

Print date : 27.03.2009

Product code : 9513

Page 5 of 5

### Full text of R-phrases referred to under sections 2 and 3

42/43 May cause sensitization by inhalation and skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Further Information

The information enclosed this safety data sheet are correct according to our knowledge. They should detail the needs of safety for our products, but demonstrate no guarantee for product attributes and justify no legal relationship. Our departments will provide assistance with any special question regarding the conventional use of our product.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*