

# Safety Data Sheet



according to Regulation (EU) No. 1907/2006

## flux cored wire, containing > 5 % chromium

Print date : 27.03.2009

Product code : 8315

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

#### Identification of the substance or preparation

flux cored wire, containing > 5 % chromium

#### **product name**

CORODUR 160, CORODUR 290K, CORODUR 328, CORODUR 337, CORODUR 4009, CORODUR 4015 OA, CORODUR 4115 OA, CORODUR 4122, CORODUR 4351 OA, CORODUR 4351 N OA, CORODUR 50, CORODUR 502, CORODUR 55, CORODUR 55 Mo, CORODUR 56, CORODUR 580, CORODUR 59, CORODUR 59 L, CORODUR 60, CORODUR 600, CORODUR 600 TIC, CORODUR 601, CORODUR 603, CORODUR 61, CORODUR 612, CORODUR 62, CORODUR 622, CORODUR 629, CORODUR 634, CORODUR 65, CORODUR 67, CORODUR 70, CORODUR 75, CORODUR 760, CORODUR WZ 59

#### Use of the substance/preparation

iron/chromium-based flux cored wire for industrial purposes

#### Company/undertaking identification

Company name : CORODUR Fülldraht GmbH  
Street : Rohrzieherstr. 6  
Place : D-47477 Willich  
Telephone : +49 (0) 21 54/88 79-0  
e-mail : info@corodur.de  
Internet : www.corodur.de  
Emergency telephone : +1-800-424-9300 (Chemtrec Emergency) Telefax : +49 (0) 21 54/88 79-79

### 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.

Cancer-causing chromium(VI)-compounds could be generated by welding chromium containing materials.

#### **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 )  
iron/chromium-based cored wire

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-096-4	7439-89-6	iron	50 - 90 %	
231-157-5	7440-47-3	chromium	5 - 35 %	

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

### 4. First aid measures

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### 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.

## 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.

#### Advice on protection against fire and explosion

Potentially flammable dust in association with air. Prevent from heat and oxidizing materials.

### 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) :

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## 8. Exposure controls/personal protection

### Exposure limit values

#### Exposure limits (EH40)

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
7440-47-3	Chromium	-	0.5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### Additional advice on control parameters

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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.  
Cancer-causing chromium(VI)-compounds could be generated by welding chromium containing materials. Exposure limit value Chromium(VI)-compounds: 0,05 mg/m<sup>3</sup>

### Exposure controls

#### **Occupational exposure controls**

Local exhaust required.

#### **Protective and hygiene measures**

When using do not eat, drink or smoke.

#### **Respiratory protection**

Respiratory protection required in case of: Insufficient ventilation.

#### **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.

## 9. Physical and chemical properties

### General information

Physical state : Cored wire  
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**

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

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### 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.

Cancer-causing chromium(VI)-compounds could be generated by welding chromium containing materials.

## 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)

## 12. Ecological information

### Ecotoxicity

No ecological information is known on the product but on the in chapter 3 named ingredients  
Chromium: LC50 (fish, 96 h): 58.000 µg/l; EC50 (algae, 48 h): 220 µg/l

## 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

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### 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

### 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.

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