

Safety Data Sheet

according to Regulation (EC) No 1907/2006

flux cored wire, containing > 5 % chromium

Print date: 12.02.2014

Product code: Cor-8315

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

flux cored wire, containing > 5 % chromium

Further trade names

CORODUR 160, CORODUR 290K, CORODUR 328, CORODUR 337, CORODUR 39 HF V, 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 59 L V, 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, CORODUR 864, CORODUR 866, CORODUR 956, CORODUR 9956

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

iron/chromium-based flux cored wire for industrial purposes

1.3. Details of the supplier of the safety data sheet

Company name:	CORODUR Fülldraht GmbH		
Street:	Gießerallee 37		
Place:	D-47477 Willich		
Telephone:	+49 (0) 21 54/88 79-0	Telefax:	+49 (0) 21 54/88 79-79
e-mail:	info@corodur.de		
Internet:	www.corodur.de		

1.4. Emergency telephone number: +1-800-424-9300 (Chemtrec Emergency)

Further Information

For industrial purposes only.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

There is no obligatory labelling requirement according to the regulations covering preparations 1999/45/EC.
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.

2.2. Label elements

Precautionary statements

P285	In case of inadequate ventilation wear respiratory protection.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

Additional advice on labelling

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Chemical characterization

iron/chromium-based cored wire

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-096-4	Iron	50 - 90 %
7439-89-6	F - Highly flammable R11	
231-157-5	chromium	5 - 35 %
7440-47-3		

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

metal-fire-drencher, dry sand

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

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

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6.3. Methods and material for containment and cleaning up

Collect spilled material in sealable containers.

6.4. Reference to other sections

Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

iron/chromium-based cored wire

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7440-47-3	Chromium	-	0.5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

Dust: respirable fraction: 4 mg/m³

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

Cancer-causing chromium(VI)-compounds could be generated by welding chromium containing materials. Exposure limit value Chromium(VI)-compounds: 0,05 mg/m³

8.2. 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Cored wire
Colour:	light to dark grey
Odour:	odourless

Test method

pH-Value:	not applicable
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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, A10: not applicable
Upper explosion limits:	not identified

Auto-ignition temperature

	according 92/69 EWG, A16: not applicable
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Solid:

Gas:

Oxidizing properties

according 92/69 EWG, A17: not applicable

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

not identified

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

stable under normal conditions

10.2. Chemical stability

stable under normal conditions

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

stable under normal conditions

10.5. Incompatible materials

oxidizing and acidic material

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No toxicological information is available on the product.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7439-89-6	Iron				
	oral	LD50 mg/kg	30000	Rat.	

Irritation and corrosivity

No symptoms known up to now.

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.

Carcinogenic/mutagenic/toxic effects for reproduction

none/none

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

No ecological information is available on the product but on the ingredients named in section 3.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	h	Species
7439-89-6	Iron				
	Acute fish toxicity	LC50	1,29 mg/l	96	
7440-47-3	chromium				
	Acute fish toxicity	LC50	40,5 mg/l	96	
	Acute algae toxicity	ErC50	8,75 mg/l		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport (ICAO)

Other applicable information (air transport)

Not a hazardous material with respect to transportation regulations.

14.5. Environmental hazards

Dangerous for the environment: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

11 Highly flammable.

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.)