

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Flux-cored Hardfacing Wire

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

##### 1.1. Product identifier

Flux-cored Hardfacing Wire. Trade Name(s): Weldclass Platinum CX-1800, Platinum CX-2150, Platinum SD-980

##### 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: Weldclass Welding Products  
 Street: 6 East West Place  
 Place: Taminda NSW 2340  
 Telephone: 02 6764 9590  
 E-mail: sales@weldclass.com.au  
 Website: www.weldclass.com.au

#### 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

###### Regulation (EC) No. 1272/2008

###### 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

###### Chemical characterization

iron/chromium-based cored wire

###### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7439-89-6	Iron			50 - 90 %
	231-096-4			
7440-47-3	Chromium			5 - 35 %
	231-157-5			

Full text of H and EUH statements: see section 16.

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#### 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.

##### 6.3. Methods and material for containment and cleaning up

Collect spilled material in sealable containers.

##### 6.4. Reference to other sections

Treat the recovered material as prescribed in 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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	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/m<sup>3</sup>

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/m<sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls

Local exhaust required.

#### Protective and hygiene measures

When using do not eat, drink or smoke.

#### Eye/face protection

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

#### Hand protection

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

#### Respiratory protection

Respiratory protection necessary at: insufficient ventilation.

## 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

pH-Value: not applicable

#### Changes in the physical state

Melting point: approx. 1010 bis 1025 °C

Initial boiling point and boiling range: > 2900 °C

Flash point: not applicable

#### Flammability

Testmethod  
according 92/69 EWG, A10:  
not applicable

Lower explosion limits:

not identified

Upper explosion limits:

not identified

#### Auto-ignition temperature

according 92/69 EWG, A16:  
not applicable

#### Oxidizing properties

according 92/69 EWG, A17: not applicable

Vapour pressure:

negligible

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Density: 2 - 6 g/cm<sup>3</sup>  
 Water solubility: not soluble  
**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.

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

### 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 route	Dose	Species	Source
7439-89-6	Iron			
	oral	LD50 30,000 mg/kg	Rat	

##### Irritation and corrosivity

No known symptoms to date.

##### 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.

##### Carcinogenic/mutagenic/toxic effects for reproduction

none

##### STOT-repeated 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)

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
7439-89-6	Iron				
	Acute fish toxicity	LC50	1.29 mg/l	96 h	
7440-47-3	Chromium				
	Acute fish toxicity	LC50	40,5 mg/l	96 h	
	Acute fish toxicity	LC50	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

##### 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

##### Waste disposal number of contaminated packaging

12101

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 0000

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 0000

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

**14.1. UN number:** UN 0000

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

#### Air transport (ICAO)

**14.1. UN number:** UN 0000

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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#### **14.6. Special precautions for user**

No information available.

#### **14.7. Transport in bulk according to Annex II of Marpol 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**

#### **Further Information**

The information enclosed in 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.)

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