

2.

5.

### SAFETY DATA SHEET in dependence to 453 / 2010 / EC

Rev. : 01 Page : 1 of 3 Date : 26.02.2014

HILCO FER SG1

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the product	:	Solid.
Company identification	:	Hilarius Haarlem Holland B.V. Emrikweg 7 2031 BT Haarlem Tel.: +31 (0) 23 531 91 00 www.hilco-welding.com / info@hilco-welding.com
Trade name		FER SG1
Typ of product		welding wire
Use	:	for professional use only.
HAZARD IDENTIFICATION		
By delivery	:	not hazardous.
Risk by welding use		
- General	:	electric shock.
- Inhalation	:	Inhalation of welding fumes may cause respiratory irritation. Different kinds of fume and dust occur during the welding and grinding process. Overexposure to welding fumes may cause: Fever, Nausea, Giddiness, Eye irritation. Irritation to the respiratory tract and to other mucous membranes. Pulmonary/bronchial disease and/or cause breathing difficulty. Overexposure to Manganese (Mn). May attack the nervous system and/or aggravate pre-existing disorders.
		The primary entry route for welding fumes and gases is by inhalation. Bronchitis and some lung fibrosis have been reported.
- Skin contact - Eye contact	:	UV, IR radiations. Heat. May produce skin irritation. UV, IR radiations. Heat. May cause eye irritation.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is not considered to be hazardous and does not contain hazardous components.

Substance name	e	Value(s)	CAS No./EC No./EC Index	Symbol(s)	R-Phrase(s)
Iron	:	ca. 97 %	7439-89-6 / 231-096-4 /		
Manganese	:	ca. 0,90 -1,30 %	7439-96-5 / 231-105-1 /		
Silicon	:	ca. 0,50 - 0,80 %	7440-21-3 / 231-130-8 /		

#### 4. FIRST AID MEASURES

First aid - Inhalation - Skin contact - Eye contact - Ingestion - Elektric shock		Assure fresh air breathing. Stop exposure. Minimize exposure to light. Ingestion unlikely. Rinse mouth. Electrical circuits must be shut off as soon as possible. Prepare to administer resuscitation in case of cardiac or respiratory failure. In case of respiratory arrest, administer artificial respiration.
General information	:	In all case: Obtain medical attention. If possible show this sheet.
FIRE-FIGHTING MEASU	RES	
Flammable class Prevention	:	The product is not flammable. Welding hot slag or sparks may cause fire. Keep away from combustible material.
Surrounding fires Protection against fire	:	Use water spray or fog for cooling exposed containers. Wear proper protective equipment.



### SAFETY DATA SHEET in dependence to 453 / 2010 / EC

: 01 : 2 of 3 : 26.02.2014 Rev. Page Date

# **HILCO FER SG1**

6.	ACCIDENTAL RELEASE MEASURES					
	Personal precaution After spillage and/o		Equip clean-up crew with proper On land, sweep or shovel into su			
7.	HANDLING AND S	STORAGE				
	Storage	:	Store in dry protected location to Container closed when not in use		tact. Keep	
	Handling	:	Wash hands and other exposed Eating, drinking or smoking and	areas with mild soap and	water before	
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION					
	Personal protection	n :	Bevor any use, it is necessary to gas linked to the wire.	attentively read the safety	v data sheet of the protection	
	- Respiratory protect	ction :	Do not breathe gas/fumes/vapou In case of insufficient ventilation,		equipment.	
	<ul> <li>Hand protection</li> </ul>	:	Welding gloves.			
	<ul> <li>Skin protection</li> </ul>	:	Skin protection appropriate to the			
	- Eye protection	:	Use a protection mask equipped Interdiction to wear contact lense		i.	
	- Ingestion		When using, do not eat, drink or			
	Industrial hygiene	:	Provide local exhaust or general		ze fumes	
			concentrations.			
9.	PHYSICAL AND C	HEMICAL PROPE	RTIES			
	Physical state	:	Solid.			
	Colour Odour	:	Copper. Odourless.			
	Melting point [°C]		ca. 1500			
10.	STABILITY AND R	EACTIVITY	· Stable under normal conditions			
	Stability Hazardous decomposition products		: Stable under normal conditions. : Formation of dangerous fumes during use.			
			According to process conditions, hazardous decomposition products may be			
			generated. Such as:			
	AI2O3	CAS 001344-28-1	EC 215-691-6	TLV (mg/m3):	10	
	CO	CAS 000630-08-0		TLV (mg/m3):	29	
	CO2	CAS 000124-38-9	EC 204-696-9	TLV (mg/m3):	-	
	CaO	CAS 001305-78-8		TLV (mg/m3):	2 (Ca)	
	Cr Fe	CAS 007440-47-3 CAS 007439-89-6		TLV (mg/m3): TLV (mg/m3):	0.5 1 (insoluble)	
	F	CAS 007439-89-0		TLV (mg/m3):	2.5	
	MgO	CAS 001309-48-4		TLV (mg/m3):	10	
	Mn	CAS 007439-96-5		TLV (mg/m3):	0.2	
	Mo	CAS 007439-98-7		TLV (mg/m3):	10	
	NO2 Ni	CAS 010102-44-0 CAS 007440-02-0		TLV (mg/m3): TLV (mg/m3):	- 1 (insoluble)	
	Ni	CAS 007440-02-0		TLV (mg/m3):	0.05 (soluble)	
	03	CAS 010028-15-6		TLV (mg/m3):	- (condito)	
	PbO	CAS 001317-36-8	EC 215-267-0	TLV (mg/m3):	0.05	
	Si	CAS 007440-21-3		TLV (mg/m3):	10 (SiO2)	
	SiO2 TiO2	CAS 014808-60-7 CAS 013463-67-7		TLV (mg/m3): TLV (mg/m3):	10 10	
	Cr (III)	CAS 013463-67-7 CAS 012018-00-7		TLV (mg/m3):	0.5	
	Cr (VI)	CAS 001308-39-9		TLV (mg/m3):	0.05	
	K20	CAS 012136-45-7		TLV (mg/m3):-		
	Na2O	CAS 001313-59-3		TLV (mg/m3):	2 (NaOH)	
	BaO	CAS 001304-28-5		TLV (mg/m3):	0.5 (Ba)	

:

Theshold Limit Values (TLV-TWA) given according to ACGIH. The TLV limit of the above elements is function of the national reglementation.



### SAFETY DATA SHEET in dependence to 453 / 2010 / EC

Rev. : 01 Page : 3 of 3 Date : 26.02.2014

## HILCO FER SG1

	Hazardous properties	:	Welding fumes are classified carcinogen by the ICRC (International Center of Research on Cancer) Group : 2 B. Cancer suspected agent.		
	Materials to avoid Other information	:	Avoid contacth with: Acids. Oxidizing agent. In case of work on parts covered by coatings such as: Lubricant, Grease, Paint, Solvent, Metallic compounds, etc The thermal or photochemical Decomposition products of these elements cumulate with the dusts and fumes emitted by the melting of the welding products. The solution to adopt must be, in any case, preceeded by a spot study. Refer to the Document "Health and Safety in Welding" published by the International Institute of Welding (IIS/IIW).		
11.	TOXICOLOGICAL INFORMATION				
	Toxicity information	:	This material or its emissions may induce an allergic or sensitization Reaction and thereby aggravate existing systemic disease.		
	Acute toxicity	:			
12.	ECOLOGICAL INFORMATIO	ECOLOGICAL INFORMATION			
	Ecological effects Information	:	This product contains no hazardous components fort he environment. Avoid release to the environment.		
13.	DISPOSAL CONSIDERATIONS				
	Disposal	:	Comply with local regulations for disposal.		
	Industrial waste number	:	120101 Ferrous metallic scraps. 120113 welding wastes		
14.	TRANSPORT INFORMATION	1			
	General information	:	Not regulated.		
15.	REGULATORY INFORMATIC	N			
	Symbol(s)		None.		
	R-Phrase(s)	:	None.		
	S-Phrase(s)	:	None.		
16.	OTHER INFORMATION				
	Warning	:	Fumes and gases ermitted during welding may be dangerous. Good ventilation of the workplace required. Electric rays may burn eyes and skin. Electric shocks can kill. Wear proper protective equipment.		
	Directive 2002/95/CE (ROHS):		Can be used in the fabrication of electric and electronic devices.		
	Training advice	:	Ensure that user is aware of the potential hazards and knows what tot do in the event of an accident or an emergency.		
	Recommended uses and restrictions	:	Contact your supplier in case of doubt.		

The present Product Safety Information has been inspired by the European Directives currently in force.

DISCLAIMER OF LIABILITY. The information in this PDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal or the product. This PDS was prepared and is to be used only for this product. If the product is used as a component in another product, this PDS information may not be applicable.