

Product Safety Information in dependence to 453 / 2010 / EC

HILCO FER G1

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 0

Typ of product : gas welding rod – EN 12536 O II Use : for professional use only.

2. 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

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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
 Value(s)
 CAS No./EC No./EC Index
 Symbol(s)
 R-Phrase(s)

 Iron
 :
 ca. 97 %
 7439-89-6 / 231-096-4 / ---- Symbol(s)
 R-Phrase(s)

 Iron
 :
 ca. 97 %
 7439-89-6 / 231-096-4 / ----

 Manganese
 :
 0,50 - 1,20 %
 7439-96-5 / 231-105-1 / ----

 Silicon
 :
 0,05 - 0,25 %
 7440-21-3 / 231-130-8 / ----

4. FIRST AID MEASURES

First aid

- Inhalation : Assure fresh air breathing.

- Skin contact : Stop exposure.

- Eye contact : Minimize exposure to light.
- Ingestion : Ingestion unlikely. Rinse mouth.

- Elektric shock : 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.

5. FIRE-FIGHTING MEASURES

Flammable class : The product is not flammable.

Prevention : Welding hot slag or sparks may cause fire. Keep away from combustible

material.

Surrounding fires : Use water spray or fog for cooling exposed containers.

Protection against fire : Wear proper protective equipment.

6. ACCIDENTAL RELEASE MEASURES



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Personal precautions : Equip clean-up crew with proper protection.

After spillage and/or leakage : On land, sweep or shovel into suitable containers.

7. HANDLING AND STORAGE

Storage : Store in dry protected location to prevent any moisture contact. Keep

Container closed when not in use.

Handling : Wash hands and other exposed areas with mild soap and water before

Eating, drinking or smoking and when leaving work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection : Bevor any use, it is necessary to attentively read the safety data sheet of the protection

gas linked to the wire.

- Respiratory protection : Do not breathe gas/fumes/vapour.

In case of insufficient ventilation, wear suitable respiratory equipment.

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- Hand protection : Welding gloves.

- Skin protection : Skin protection appropriate to the conditions of use should be provided.

- Eye protection : Use a protection mask equipped with suitable filter glasses.

Interdiction to wear contact lenses.
- Ingestion When using, do not eat, drink or smoke.

Industrial hygiene : Provide local exhaust or general room ventilation to minimize fumes

concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Solid.
Colour : Copper.
Odour : Odourless.
Melting point [°C] : ca. 1500

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Hazardous decomposition products : Formation of dangerous fumes during use.

According to process conditions, hazardous decomposition products may be

generated. Such as:

Al2O3 CO CO2 CaO Cr Fe F MgO Mn Mo NO2 Ni Ni O3 PbO Si SiO2 TiO2 Cr (III) Cr (VI) K2O Na2O	CAS 001344-28-1 CAS 000630-08-0 CAS 000124-38-9 CAS 001305-78-8 CAS 007440-47-3 CAS 007439-89-6 CAS 007789-96-5 CAS 001309-48-4 CAS 007439-98-7 CAS 010102-44-0 CAS 007440-02-0 CAS 007440-02-0 CAS 010028-15-6 CAS 001317-36-8 CAS 007440-21-3 CAS 014808-60-7 CAS 013463-67-7 CAS 012018-00-7 CAS 0112018-00-7 CAS 001308-39-9 CAS 012136-45-7 CAS 001313-59-3	EC 215-691-6 EC 211-128-3 EC 204-696-9 EC 215-138-9 EC 231-157-5 EC 231-096-4 EC 232-188-7 EC 215-171-9 EC 231-105-1 EC 231-107-2 EC 233-272-6 EC 231-111-4 EC 233-069-2 EC 215-267-0 EC 231-130-8 EC 238-878-4 EC 236-675-5	TLV (mg/m3):	10 29 - 2 (Ca) 0.5 1 (insoluble) 2.5 10 0.2 10 - 1 (insoluble) 0.05 (soluble) - 0.05 10 (SiO2) 10 10 0.5 2 (NaOH)
K2O Na2O BaO	CAS 012136-45-7 CAS 001313-59-3 CAS 001304-28-5	 	TLV (mg/m3):- TLV (mg/m3): TLV (mg/m3):	2 (NaOH) 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.

Hazardous properties : Welding fumes are classified carcinogen by the ICRC (International

Center of Research on Cancer) Group: 2 B. Cancer suspected agent.



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Materials to avoid : Avoid contacth with: Acids. Oxidizing agent.

Other information : 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

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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.

12. ECOLOGICAL INFORMATION

Acute toxicity

Information

Ecological effects : 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

General information : Not regulated.

15. REGULATORY INFORMATION

 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 : Contact your supplier in case of doubt.

restrictions

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

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