



according to 1907/2006/EC, Article 31

Version number 24

Revision: 05.08.2020

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

- 1.1 Product identifier
- · Trade name: <u>HILCO RED EXTRA</u>
- · CAS Number: -
- · EINECS Number: -
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Shielded Metal Arc Welding Electrode The product is a manufactured article in the sense of Article 3 No. 3, 1907/2006/EC (REACh). The purpose of the present safety data sheet is therefore to provide instruction on safe usage of the product.
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: 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

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 The Product does not meet the criteria for classification in any hazard class according to Regulation (EC) No
 1272/2008 on classification, labelling and packaging of substances and mixtures.
- · 2.2 Label elements -
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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•	: Mixtures es listed below with nonhazardous additions.	
Dangerous components:		
CAS: 14808-60-7 EINECS: 238-878-4	silicon dioxide	2.5-5%
CAS: 7439-96-5 EINECS: 231-105-1 Reg.nr.: 01-2119449803-34-XXXX	manganese substance with a Community workplace exposure limit	2.5-5%
CAS: 12056-51-8 ELINCS: 432-240-0 Index number: 022-004-00-1	potassium titanium oxide (K2Ti6O13) 🚸 Carc. 2, H351	0.1-2.5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters

For deletion of fire just use dry powders. Don't use any water or halogenated containing extinguishing agents

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure that suitable extractors are available on processing machines
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

14808-60-7 silicon dioxide

BOELV Long-term value: 0.1* mg/m³ *respirable fraction

7439-96-5 manganese

IOELV Long-term value: 0.2* 0.05** mg/m³

as Mn; *inhalable, **respirable fraction

· Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Filter P2
- Protection of hands: FN 12477

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Colour: According to product specification · Odour: Odourless · Odour threshold: Not determined. · pH-value: Not applicable. · Flash point: Not applicable. (Contd. on page 4)

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Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
water:	Insoluble.	
Partition coefficient: n-octanol/w	vater: Not determined.	
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · **Recommendation** Must be specially treated adhering to official regulations.
- · European waste catalogue

12 01 13 welding wastes

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· ADR, ADN, IMDG, IATA	Void
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to An Marpol and the IBC Code 	nex II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	- Void

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SECTION 15: Regulatory information

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

No further relevant information available.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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NGL EWA2011	
NGL EWA2011	
osure Scenarios, Risk Management Measures and to identify Operational r which metals, alloys and metallic articles may be safely welded can affect human health and the environment. Fumes are a varying mixture of airborne gases and fine ed, constitute a health hazard. The degree of risk will depend on the composition of the fume, of exposure. The fume composition is dependent upon the material being worked, the process and the work such as paint, galvanizing or plating, oil or contaminants from cleaning and degreasing assessment of exposure is necessary, taking into account the particular circumstances for the operator d	
n welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures nd guidelines provided by this exposure scenario and (2) using the information provided by the Safety	
If from welding fumes to the safety and health of workers is eliminated or reduced to a minimum. The arial combinations with the lowest class, whenever possible. It emission parameter. tive measure in accordance with class number. In general, the use of PPE is taken into applied.	
al Regulations regarding the exposure to welding fumes of welders and related personnel shall be	
es for individual process / material combinations" below, reference is made to the following standards assures: Welding process Reference Numbers according to ISO 4063 Health and safety in welding and allied processes - Requirements testing and marking of equipment or air filtration - Part 1: Testing of the separation efficiency for welding fume Health and safety in welding and allied processes - Requirements, testing and marking of equipment for air filtration - Part 2: Determination of the minimum air volume flow rate of captor hoods and nozzles Respiratory protective devices. Light duty construction compressed air line breathing apparatus incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3). Respiratory protective devices. Light duty construction compressed air line breathing apparatus incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3). Respiratory protective devices. Severed filters — Requirements, testing, marking (P1, P2, P3) Article 6.2 on the protective devices — Partice filters — Requirements, testing, marking (P1, P2, P3) Article 6.2 on the protection of the health and safety of workers from the risks related to chemical agents at work Benutzung won Atemschutzgeräten (Berufsgenossenschaftliche Regel für Sicherheit und Gesundheit bei der Arbeit) Schweisstechnische Arbeiten (Technische Regeln für Gefahrstoffe) asures for individual process / material combinations", reference is made to footnotes. ate risk by selecting process/material combinations with the lowest value. sk management measures shall be applied "E2 required avoiding exceeding the National Exposure Limit Value (DC: Duty cycle expressed on 8 additional Local Exhaust Ventilation (LEV) and extracted air to the outside, the GV or LEV capacity i requirement. tobele compared to Low)	
n no Local Exhaust Ventilation, the ventilation requirement is 5-fold with powered filters (TH2/P2), on helmet with external air supply (LDH2) (X separate, ventilated area where reduced (negative) pressure, compared to the surrounded area, is h, extraction at source (includes table, hood, arm or torch extraction))), or helmet with external air supply (LDH3) (vertraction at source (includes table, hood, arm or torch extraction) dium, extraction at source (includes table, hood, arm or torch extraction) dium, extraction at source (includes table, hood, arm or torch extraction) dium, extraction at source (includes table, hood, arm or torch extraction) dium, extraction at source (includes table, hood, arm or torch extraction) set in the outside environment. Is not necessarily small. Examples of confined spaces include ship, silos, vats, utility vaults, tanks, etc. direct flow of welding fumes inside	
	can affect human health and the environment. Furnes are a varying mixture of airborne gases and fine disconstitute a health hazar. The degree of risk will depend on the composition of the furne, of exposure. The furne composition is dependent upon the material being worked, the process and the work such as paint, gaivarianing or plating, oil or contaminants from oleaning and degreesing assessment of exposure is necessary, taking into account the particular circumstances for the operator d. m welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures diguidelines provided by this exposure scenario and (2) using the information provided by the Safety EACH, by the welding consumable manufacturer. it from welding furnes to the safety and health of workers is eliminated or reduced to a minimum. The risk combinations with the lowest class, whenever possible. ti emission parameter. It we measure in accordance with class number. In general, the use of PPE is taken into applied. We equipment in accordance with class number. In general, the use of PPE is taken into applied. We equipment in accordance with class number. In general, the use of PPE is taken into assessmes: Welding process / material combinations' below, reference is made to the following standards assures: Welding process / material combinations' below, reference is made to the following standards assures: Welding process / material combinations' below, reference is made to the following standards assures: Welding process / material and likel processes - Requirements, testing and marking of equipment or air fittration - Part 1: Testing of the separation efficiency for welding time Health and safety in welding and alleid processes - Requirements, testing and marking of equipment for air fittration - Part 2: Determination of the minimum ari volume flow rate of captor hoods and nozzles Respiratory prodective devices - Fittering half masks to protect against particles - Requirements, Respiratory prodective devices - Particl



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Welding Exposure Scenario WES - ENGL

EWA2011

Risk Management Measures for individual process / base material combinations

Class'	Process	Base	Remarks	Ventilation /	PPE ²	PPE ²
	(according to ISO 4063)	Materials		Extraction / Filtration ¹⁴	DC<15%	DC>15%
			Non-confined sp	ace ¹⁵		_
1	GTAW 141					
	SAW 12		Except Aluminium		n.r.	n.r.
	Autogeneous 3			GV low ³		
	PAW 15					
	ESW/EGW 72/73]				
	Resistance 2]				
	Stud welding 78					
	Solid state 521					
	Gases Brazing 9	All	Except Cd- alloys	GV low ³	n.r.	n.r.
11	GTAW 141	Aluminium	n.a.	GV medium⁴	n.a.	FFP2 [®]
III	MMAW 111	All	Except Be-, V- , Mn-,			
			Ni- alloys and	-		
			Stainless ⁶	GV low ⁷	Improved	FFP2 ⁵
	FCAW 136/137	All	Except Stainless and	LEV low ¹²	helmet ¹⁶	
			Ni- alloys 6			
	GMAW 131/135	All	Except Cu-, Be-, V-			
			alloys ⁶			
	Powder Plasma Arc 152	All	Except Be-, V-, Cu- ,			
			Mn-, Ni-alloys and			
			Stainless 6	2		
IV	All processes class I	Painted /	No Pb containing	GV low ³		FFP3,
		primed / oiled	primer		FFP2 ⁵	TH2/P2,
	All processes class III	Painted /	No Pb containing	GV low ' LEV low ¹²		or LDH28
		primed / oiled	primer			
v	MMAW 111	Stainless, Ni-,	n.a.	LEV high ¹⁰	TH3/P3, LDH3 ¹¹	TH3/P3, LDH3 ¹¹
		Be-, and V-			LDH3	LDH3
	FCAW 136/137	alloys Stainless.	4			
	FCAVV 130/137	Mn- and Ni-				
		alloys				
	GMAW 131	Cu-allovs	4			
	Powder Plasma Arc 152	Stainless.	-			
	Powder Plasma Arc 152	Mn-, Ni-, and				
		Cu- alloys				
VI	GMAW 131	Be-, and V-	n.a.	Bodycod (nonethic) executed even 9	TH3/P3,	TH3/P3.
VI		alloys	11.a.	Reduced (negative) pressured area ⁹ LEV low ¹²	LDH3 ¹¹	LDH3 ¹¹
	Powder Plasma Arc 152				LDHJ	LDH3
VII	Self shielded FCAW 114	Un-, high	Cored wire, not	Reduced (negative) pressured area		
		alloyed steel	containing Ba	LEV medium ¹³		
	Self shielded FCAW 114	Un-, high	Cored wire,	Reduced (negative) pressured area	TH3/P3,	TH3/P3,
		alloyed steel	containing Ba	LEV high ¹⁰	LDH3 ¹¹	LDH3 ¹¹
	All	Painted /	Paint / Primer			
		primed	containing Pb	4		
	Arc Gouging and	All	n.a.			
	Cutting 8			4		
	Thermal Spray	All	n.a.	4		
	Gases Brazing 9	Cd- alloys	n.a.	15		
			losed system or Confi			
I	Laser Welding 52	All	Closed system	GV medium ⁴	n.a.	n.a.
	Laser Cutting 84	1				
	Electron Beam 51					
VIII	All	All	Confined space	LEV high ¹⁰ External air supply	LDH3 ¹¹	LDH3 ¹¹

• **Relevant phrases** H332 Harmful if inhaled. H351 Suspected of causing cancer.

Abbreviations and acronyms:
 NCEC - National Chemical Emergency Centre (=Carechem24)
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of
 Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Carc. 2: Carcinogenicity – Category 2

• * Data compared to the previous version altered.

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