

according to 1907/2006/EC, Article 31

Version number 3

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

- 1.1 Product identifier
- · Trade name: HILCO REGINA 160
- · 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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3.2 Chemical characterisation Description: Mixture of substance	: Mixtures es listed below with nonhazardous additions.	
Dangerous components:		
CAS: 1344-09-8 EINECS: 215-687-4 Reg.nr.: 01-2119448725-31-XXXX	Silicic acid, sodium salt ♦ Skin Corr. 1C, H314; Eye Dam. 1, H318 ↓ STOT SE 3, H335	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	0.1-2.5%
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17-XXXX	potassium silicate � Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.1-2.5%

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.

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See Section 13 for disposal information.

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:

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.

Solid

Odourless

Not determined.

Not applicable.

Not applicable.

- · Respiratory protection: Filter P2
- Protection of hands:
- EN 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.

According to product specification

- · 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: Colour:
- Odour:
 Odour threshold:
- · pH-value:
- pri-value.
- Flash point:
- Flammability (solid, gas): Not determined.

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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	/water: Not determined.
· Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solids content:	96.5 %
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.
- 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 Annex Marpol and the IBC Code 	Il 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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Welding Exposure Scenario WES	- ENGL EWA2011	
Recommendations for E Conditions un Welding/Erazing produces fumes wi particles which, if inhaled or swal concentration of the fume and dura consumatiles being used, coatings activities. A systematic approach to and ancillary worker that can be exp Considering the emission of fumes through applying general information Data Sheet, issued in accordance w The employer shall ensure that the following principle shall be applied: 1 - Select the applicable process with the lo	Exposure Scenarios, Risk Management Measures and to identify Operational der which metals, alloys and metallic articles may be safely welded lich can affect human health and the environment. Fumes are a varying mixture of airborne gases and fine oved, constitute a health hazard. The degree of risk will depend on the composition of the fume, tion of exposure. The fume composition is dependent upon the material being worked, the process and on the work such as paint, galvanizing or plating, oil or contaminants from cleaning and degreasing he assessment of exposure is necessary, taking into account the particular circumstances for the operator osed. when welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures a nad guidelines provided by this exposure scenario and (2) using the information provided by the Safety th REACH, by the welding consumable manufacturer. risk from welding fumes to the safety and health of workers is eliminated or reduced to a minimum. The naterial combinations with the lowest class, whenever possible. west emission parameter.	
3- Apply the relevant collective pro account after all other measure	xtective measure in accordance with class number. In general, the use of PPE is taken into s is applied.	
In addition, compliance with the Na	tective equipment in accordance with the duty cycle. tional Regulations regarding the exposure to welding furnes of welders and related personnel shall be	
verified. In the table "Risk Management Mer for collective and personal protection ISO 4063 EN ISO 15012-1:2004 EN ISO 15012-2:2008 EN ISO 15012-2:2008 EN 149:2001 EN 135:2000 EN 12941:1998 EN 143:2000 Directive 1998/24/EC BGR 190 TRGS 528 Also in the table "Risk Management The description of these footnotes: ' Class: approximate ranking to m Identified collective and individu 2 Personal Protective Equipment hours) General Ventilation (GV) Low. V a general Ventilation (GV) Mediur 5 Titting haff mask (FFP2) When an alloyed consumable is ' General Ventilation (GV) Low. V	sures for individual process / material combinations" below, reference is made to the following standards measures: Welding process Reference Numbers according to ISO 4063 Health and safely 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 safely 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 - Filtering half masks to protect against particles - Requirements, testing, marking (FPF1 - FF2 - FF2) Respiratory protective devices. Full duty construction compressed air line breathing apparatus incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3). Respiratory protective devices. Powered filtering devices incorporating a helmet or a hood. Requirements, testing, marking (TH1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirements, testing, marking (CH1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirements, testing, marking (CH1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirements, testing, marking (CH1 - CH1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirements, testing, marking ch1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirements, testing, marking ch1 - TH2 - TH3). Respiratory protective devices — Partice filtering devices incorporating a helmet or a hood. Requirement is to work Benutzung von Atemschutzgeräten (Berufsgenosenschaftliche Regel für Sicherheit und Gesundheit bei der Arbeit) Schweisstechnische Arbeiten (Technische Regeln für Gefahrs	
 Filtrating haif mask (FFP3), hein Reduced (negative) pressured A maintained Local Exhaust Ventilation (LEV) Helmet with powerd filters (TH2 Local Exhaust Ventilation (LEV) Local Exhaust Ventilation (LEV) Recommended measures to con aluminium, shall be filtered befor 	In the local Extracts volume to reinstance requirements in supply (LDH2) vrea: A separate, ventilated area where reduced (negative) pressure, compared to the surrounded area, is High, extraction at source (includes table, hood, arm or torch extraction) Medium, extraction at source (includes table, hood, arm or torch extraction) Medium, extraction at source (includes table, hood, arm or torch extraction) Medium, extraction at source (includes table, hood, arm or torch extraction) mply with national maximum allowable limits. Extracted fumes, for all materials except unalloyed steel and refease in the outside environment. The is not necessarily small. Examples of confined spaces include ship, silos, vats, utility vaults, tanks, etc. oid direct flow of welding fumes inside	



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Welding Exposure Scenario WES - ENGL

EWA2011

Risk Management Measures for individual process / base material combinations

Class ¹	Process	Base	Remarks	Ventilation /	PPE ²	PPE ²
	(according to ISO 4063)	Materials		Extraction / Filtration ¹⁴	DC<15%	DC>15%
			Non-confined sp	ace ¹⁶		
L	GTAW 141					
	SAW 12					
	Autogeneous 3	All	Except Aluminium	GV low ³	n.r.	n.r.
	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
ш	MMAW 111	All	Except Be-, V- , Mn-, Ni- alloys and Stainless ⁶	GV low ⁷	Improved	FFP2⁵
	FCAW 136/137	All	Except Stainless and Ni- alloys ⁶	LEV low ¹²	helmet ¹⁶	
	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			
IV	All processes class I	Painted / primed / oiled	No Pb containing primer	GV low ³	FFP2 ⁵	FFP3, TH2/P2, or LDH2 ⁸
	All processes class III	Painted / primed / oiled	No Pb containing primer	GV low ' LEV low ¹²		
v	MMAW 111	111 Stainless, Ni-, n.a. LEV high [™] Be-, and V- allovs	LEV high ¹⁰	TH3/P3, LDH3 ¹¹	TH3/P3, LDH3 ¹¹	
	FCAW 136/137	Stainless, Mn- and Ni- alloys				
	GMAW 131	Cu-alloys	1			
	Powder Plasma Arc 152	Stainless, Mn-, Ni-, and Cu- alloys				
VI	GMAW 131	Be-, and V- alloys	n.a.	Reduced (negative) pressured area ⁹ LEV low ¹²	TH3/P3, LDH3 ¹¹	TH3/P3, LDH3 ¹¹
	Powder Plasma Arc 152	-			20113	
VII	Self shielded FCAW 114	Un-, high alloyed steel	Cored wire, not containing Ba	Reduced (negative) pressured area ⁹ LEV medium ¹³		
	Self shielded FCAW 114	alloyed steel containing Ba LEV high	Reduced (negative) pressured area TH3/P3, LEV high ¹⁰ LDH3 ¹¹		TH3/P3, LDH3 ¹¹	
	All	Painted / primed	Paint / Primer containing Pb			
	Arc Gouging and Cutting 8	All	n.a.	1		
	Thermal Spray	All	n.a.	1		
	Gases Brazing 9	Cd- alloys	n.a.	1		
	eaces broking 0		losed system or Confi	ned space ¹⁶	1	
-	Laser Welding 52	All	Closed system	GV medium ⁴	n.a.	n.a.
1 ' '	Laser Cutting 84		Siccou system			a.
	Electron Beam 51					
VIII	All	All	Confined space	LEV high ¹⁰ External air supply	LDH3 ¹¹	LDH311

· Relevant phrases H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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 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 IATA: International Maritime Code for Dangerous Goods 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 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 2 Eyr Dam. 1: Serious eye damage/eye irritation – Category 3 * **Data compared to the previous version altered.** EU