

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 BASIC SUPER
- · 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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• <b>3.2 Chemical characterisation: Mixtures</b> • <b>Description:</b> Mixture of substances listed below with nonhazardous additions.			
Dangerous components:			
CAS: 14542-23-5 EINECS: 238-575-7	calcium fluoride substance with a Community workplace exposure limit	5-12.5%	
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%	

#### 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.

#### SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure that suitable extractors are available on processing machines

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· 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

 $\cdot$  Ingredients with limit values that require monitoring at the workplace:

14542-23-5 calcium fluoride

IOELV Long-term value: 2.5 mg/m<sup>3</sup> as F

#### 7439-96-5 manganese

IOELV Long-term value: 0.2\* 0.05\*\* mg/m<sup>3</sup> 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:
- 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.
- Eye protection: Safety glasses
- · Body protection: Protective work clothing

#### SECTION 9: Physical and chemical properties

Appearance:			
Form:	Solid		
Colour:	According to product specification		
Odour:	Odourless		
Odour threshold:	Not determined.		
pH-value:	Not applicable.		
Flash point:	Not applicable.		
Flammability (solid, gas):	Not determined.		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Product is not selfigniting.		



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· 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.	
· 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 Attacks materials containing glass and silicate.
- 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.

#### 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.

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

#### **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.

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· 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	
Conditions un Welding/Brazing produces fumes wi particles which, if inhaled or swal concentration of the fume and dura consumables being used, coatings activities. A systematic approach to and ancillary worker that can be exp Considering the emission of fumes	when welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures	
Data Sheet, issued in accordance w The employer shall ensure that the following principle shall be applied. 1. Select the applicable process/ 2. Set weiding process with the to 3. Apply the relevant collective pr account after all other measure	otective measure in accordance with class number. In general, the use of PPE is taken into	
	ational Regulations regarding the exposure to welding fumes of welders and related personnel shall be	
for collective and personal protection ISO 4063 EN ISO 15012-1:2004 EN ISO 15012-2:2008 EN 149:2001 EN 1835:2000 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 n Identified collective and individu Personal Protective Equipment hours) General Ventiliation (GV) Low. 1 may be reduced to 1/5 of the on 4 General Ventiliation (GV) Mediun 4 Filtrain plaff mask (FEP2)	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 - Filtering half masks to protect against particles - Requirements, testing, marking (FFP1 - FFP2 - FFP3) 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. Particle filtering devices incorporating a helmet or a hood. Requirements, testing, marking (TH1 - TH2 - TH3). Respiratory protective devices — Particle 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 von Alemschutzgeräten (Berufsgenossenschaftliche Regel für Sicherheit und Gesundheit bei der Arbeit) Schweisstechnische Arbeiten (Technische Regeln für Gefahrstoffe) Measures for individual process / material combinations*, reference is made to footnotes. alitigate risk by selecting process/material combinations with the lowest value. al risk management measures shall be applied (PPE) required avoiding exceeding the National Exposure Limit Value (DC: Duty cycle expressed on 8 With additional Local Exhaust Ventilation (LEV) and extracted air to the outside, the GV or LEV capacity ginal requirement. m (double compared to Low)	
<ul> <li>General Ventilation (GV) Low. V</li> <li>Filtrating haff mask (FF23), help</li> <li>Reduced (negative) pressured / maintained</li> <li>Local Exhaust Ventilation (LEV)</li> <li>Local Exhaust Ventilation (LEV)</li> <li>Local Exhaust Ventilation (LEV)</li> <li>Local Exhaust Ventilation (LEV)</li> <li>Recommended measures to co aluminium, shall be filtered befo</li> <li>A confined space, despite it sna</li> </ul>	<ul> <li>used, measures from "Class V" are required</li> <li>then no Local Exhaust Vehillation, the vehillation requirement is 5-fold</li> <li>net with powered filters (TH2/P2), or helmet with external air supply (LDH2)</li> <li>Area: A separate, vehillated area where reduced (negative) pressure, compared to the surrounded area, is</li> <li>High, extraction at source (includes table, hood, arm or torch extraction)</li> <li>3/P3), or helmet with external air supply (LDH3)</li> <li>Low, extraction at source (includes table, hood, arm or torch extraction)</li> <li>Medium, extraction at source (includes table, hood, arm or torch extraction)</li> <li>Medium, extraction at source (includes table, hood, arm or torch extraction)</li> <li>mply with national maximum allowable limits. Extracted fumes, for all materials except unalloyed steel and re release in the outside environment.</li> <li>me, is not necessarily small. Examples of confined spaces include ship, silos, vats, utility vaults, tanks, etc. void direct flow of welding fumes inside</li> </ul>	



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Welding Exposure Scenario WES - ENGL

EWA2011

Risk Management Measures for individual process / base material combinations

Class'	Process (according to ISO 4063)	Base Materials	Remarks	Ventilation / Extraction / Filtration <sup>14</sup>	PPE <sup>2</sup> DC<15%	PPE <sup>2</sup> DC>15%
	(according to 100 4000)	matoriars	Non-confined sp	ace <sup>10</sup>	50.10%	50-1076
1	GTAW         141           SAW         12           Autogeneous         3           PAW         15           ESW/EGW         72/73           Resistance         2           Stud welding         78	All	Except Aluminium	GV low <sup>3</sup>	n.r.	n.r.
	Solid state 521 Gases Brazing 9	All	Except Cd- allovs	GV low <sup>3</sup>		
	Gases Brazing 9 GTAW 141	Aluminium	n.a.	GV now GV medium <sup>4</sup>	n.r. n.a.	n.r.
	MMAW 111	All	Except Be-, V- , Mn-, Ni- alloys and Stainless <sup>6</sup>	GV low <sup>7</sup>	Improved	FFP2
	FCAW 136/137	All	Except Stainless and Ni- alloys <sup>6</sup>	LEV low <sup>12</sup>	helmet <sup>16</sup>	
	GMAW 131/135 Powder Plasma Arc 152	All	Except Cu-, Be-, V- alloys <sup>6</sup> Except Be-, V-, Cu-, Mn-, Ni-alloys and Stainless <sup>6</sup>			
IV	All processes class I	Painted /	No Pb containing	GV low <sup>3</sup>		FFP3,
1.	All processes class i	primed / oiled	primer	GVIOW	FFP2 <sup>5</sup>	TH2/P2,
	All processes class III	Painted / primed / oiled	No Pb containing primer	GV low 7 LEV low <sup>12</sup>		or LDH2 <sup>8</sup>
v	MMAW 111	Stainless, Ni-, Be-, and V- alloys	n.a.	LEV high <sup>10</sup>	TH3/P3, LDH3 <sup>11</sup>	TH3/P3, LDH3 <sup>11</sup>
	FCAW 136/137	Stainless, Mn- and Ni- alloys				
	GMAW 131 Powder Plasma Arc 152	Cu-alloys Stainless, Mn-, Ni-, and				
VI	GMAW 131 Powder Plasma Arc 152	Cu- alloys Be-, and V- alloys	n.a.	Reduced (negative) pressured area <sup>9</sup> LEV low <sup>12</sup>	TH3/P3, LDH3 <sup>11</sup>	TH3/P3, LDH3 <sup>11</sup>
VII	Self shielded FCAW 114	Un-, high alloyed steel	Cored wire, not containing Ba	Reduced (negative) pressured area <sup>9</sup> LEV medium <sup>13</sup>		
	Self shielded FCAW 114	114 Un-, high Cored wire, Reduced (negative) pressured area alloyed steel containing Ba LEV high <sup>10</sup>	TH3/P3, LDH3 <sup>11</sup>	TH3/P3, LDH3 <sup>11</sup>		
	All	Painted / primed	Paint / Primer containing Pb			
	Arc Gouging and Cutting 8	All	n.a.			
	Thermal Spray Gases Brazing 9	All Cd- alloys	n.a. n.a.	4		
	Cases Diazilly 5		losed system or Confi	ned space <sup>15</sup>	1	
1	Laser Welding 52 Laser Cutting 84 Electron Beam 51	All	Closed system	GV medium⁴	n.a.	n.a.
VIII	All	All	Confined space	LEV high <sup>10</sup> External air supply	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>

· 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

INDEX International Maintine 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

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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

\* \* Data compared to the previous version altered.

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