

according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

Page 1/9

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

- · 1.1 Product identifier
- · Trade name: HILCO BASIC
- · 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.

(Contd. on page 2)

EU



according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

(Contd. of page 1)

Page 2/9

# SECTION 3: Composition/information on ingredients 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

| CAS: 14542-23-5<br>EINECS: 238-575-7                                  | calcium fluoride<br>substance with a Community workplace exposure limit                   | 2.5-5%   |
|---|---|----------|
| CAS: 1312-76-1<br>EINECS: 215-199-1<br>Reg.nr.: 01-2119456888-17-XXXX | potassium silicate<br>() Skin Irrit. 2, H315; Eye Irrit. 2, H319                          | 2.5-5%   |
| CAS: 1344-09-8<br>EINECS: 215-687-4<br>Reg.nr.: 01-2119448725-31-XXXX | Silicic acid, sodium salt<br>♦ Skin Corr. 1C, H314; Eye Dam. 1, H318<br>♦ STOT SE 3, H335 | 0.1-2.5% |
| CAS: 7439-96-5<br>EINECS: 231-105-1<br>Reg.nr.: 01-2119449803-34-XXXX | manganese<br>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.

(Contd. on page 3)

EU



according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

(Contd. of page 2)

Page 3/9

#### Trade name: HILCO BASIC

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:

#### 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

- 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.                    |

(Contd. on page 4)

EU



according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

|                                       |   | (Contd. of page |
|---------------------------------------|---|-----------------|
| Flash point:                          | Not applicable.                               |                 |
| 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/wate | er: 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.

(Contd. on page 5)

FU



according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

(Contd. of page 4)

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

(Contd. on page 6)



according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

(Contd. of page 5)

#### 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.

(Contd. on page 7)



# Safety data sheet according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

|   |   | (Contd. of page 6) |
|---|---|--------------------|
|   |   |                    |
| Welding Exposure Scenario WE  | S-ENGL EWA2011  |                    |
| Conditions u<br>Welding/Brazing produces fumes<br>particles which, if inhaled or sw<br>concentration of the fume and du<br>consumables being used, coatin<br>activities. A systematic approach i  | TExposure Scenarios, Risk Management Measures and to identify Operational<br>inder which metals, alloys and metallic articles may be safely welded<br>which can affect human health and the environment. Fumes are a varying mixture of airborne gases and fine<br>allowed, constitute a health hazard. The degree of risk will depend on the composition of the fume,<br>iration of exposure. The fume composition is dependent upon the material being worked, the process and<br>gs on the work such as paint, galvanizing or plating, oil or contaminants from cleaning degreasing<br>to the assessment of exposure is necessary, taking into account the particular circumstances for the operator |                    |
| through applying general informat   | is when welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures<br>tion and guidelines provided by this exposure scenario and (2) using the information provided by the Safety   |                    |
| The employer shall ensure that the following principle shall be applied - Select the applicable process - Set welding process with the - Sapply the relevant collective account after all other measu   | s/material combinations with the lowest class, whenever possible.<br>Iowest emission parameter,<br>protective measure in accordance with class number. In general, the use of PPE is taken into   |                    |
| In addition, compliance with the<br>verified.   | National Regulations regarding the exposure to welding fumes of welders and related personnel shall be  |                    |
| In the table "Risk Management N<br>for collective and personal protect<br>ISO 4063<br>EN ISO 15012-1:2004   | leasures for individual process / material combinations" below, reference is made to the following standards<br>for measures:<br>Welding process Reference Numbers according to ISO 4063<br>Health and safety in welding and allied processes - Requirements testing and marking of equipment<br>or air filtration - Part 1: Testing of the separation efficiency for welding fume  |                    |
| EN ISO 15012-2:2008   | If all minuted is a transferred in the separation of oncorrect for would grain and marking of equipment<br>Health and safety in welding and alled processes. Requirements, lesting and marking of equipment<br>for air filtration - Part 2: Determination of the minimum air volume flow rate of captor hoods and<br>nozzles  |                    |
| EN 149:2001   | Respiratory protective devices - Filtering half masks to protect against particles - Requirements,<br>testing, marking (FFP1 - FFP2 - FFP3)   |                    |
| EN 1835:2000  | Respiratory protective devices. Light duty construction compressed air line breathing apparatus<br>incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3).   |                    |
| EN 12941:1998   | Respiratory protective devices. Powered filtering devices incorporating a helmet or a hood.<br>Requirements, testing, marking (TH1 - TH2 - TH3).  |                    |
| EN 143:2000<br>Directive 1998/24/EC   | Respiratory protective devices — Particle filters — Requirements, testing, marking (P1, P2, P3)<br>Article 6.2 on the protection of the health and safety of workers from the risks related to chemical<br>agents at work   |                    |
| BGR 190   | agenis at work<br>Benutzung von Atemschutzgeräten (Berufsgenossenschaftliche Regel für Sicherheit und Gesundheit<br>bei der Arbeit)   |                    |
| TRGS 528  | Schweisstechnische Arbeiten (Technische Regeln für Gefahrstoffe)  |                    |
| The description of these footnotes<br>1 Class: approximate ranking to<br>dentified collective and indivi<br>Personal Protective Equipme<br>hours)<br>3 General Ventilation (GV) Low<br>may be reduced to 1/5 of the-<br>4 General Ventilation (GV) Low<br>6 Filtrating haff mask (FFP2)<br>4 When an alloyed consumable<br>7 General Ventilation (CFP3), h<br>8 Filtrating haff mask (FFP2)<br>4 Filtrating haff mask (FFP2)<br>5 Local Exhaust Ventilation (LE<br>5 Local Exhaust Ventilation (LE<br>5 Local Exhaust Ventilation (LE<br>5 Recommended measures to<br>aluminium, shall be filtered the<br>5 A confined space, despite its ; | mitigate risk by selecting process/material combinations with the lowest value.<br>dual risk management measures shall be applied<br>nt (PPE) required avoiding exceeding the National Exposure Limit Value (DC: Duty cycle expressed on 8<br>v. With additional Local Exhaust Ventilation (LEV) and extracted air to the outside, the GV or LEV capacity   |                    |
|   |   | (Contd. on page 8) |
|   |   | E                  |



# Safety data sheet according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

EWA2011

#### Trade name: HILCO BASIC

Welding Exposure Scenario WES - ENGL

| Class' | Process<br>(according to ISO 4063)              | Base<br>Materials                        | Remarks   | Ventilation /<br>Extraction / Filtration <sup>14</sup>   | PPE <sup>2</sup><br>DC<15%            | PPE <sup>2</sup><br>DC>15%    |
|--------|---|--|---|--|---------------------------------------|-------------------------------|
|        |   |  | Non-confined sp   |  |                                       |                               |
| 1      | GTAW 141  |  |   |  |                                       |                               |
|        | SAW 12  | 1  |   |  |                                       |                               |
| t I    | Autogeneous 3                                   | All                                      | Except Aluminium  | GV low <sup>3</sup>  | n.r.                                  | n.r.                          |
|        | PAW 15  | 1  |   |  |                                       |                               |
|        | ESW/EGW 72/73                                   | 1  |   |  |                                       |                               |
|        | Resistance 2                                    | 1  |   |  |                                       |                               |
|        | Stud welding 78                                 | 1  |   |  |                                       |                               |
|        | Solid state 521                                 | 1  |   |  |                                       |                               |
|        | Gases Brazing 9                                 | All                                      | Except Cd- alloys   | GV low <sup>3</sup>  | n.r.                                  | n.r.                          |
| 1      | GTAW 141  | Aluminium                                | n.a.  | GV medium <sup>4</sup>   | n.a.                                  | FFP2 <sup>®</sup>             |
| Ш      | MMAW 111  | All                                      | Except Be-, V- , Mn-,<br>Ni- alloys and                               |  |                                       |                               |
|        |   |  | Stainless <sup>6</sup>  | GV low <sup>7</sup>  | Improved                              | FFP2 <sup>5</sup>             |
|        | FCAW 136/137                                    | All                                      | Except Stainless and<br>Ni- alloys <sup>6</sup>                       | LEV Iow <sup>12</sup>  | helmet <sup>16</sup>                  |                               |
|        | GMAW 131/135                                    | All                                      | Except Cu-, Be-, V-<br>alloys <sup>6</sup>                            |  |                                       |                               |
|        | Powder Plasma Arc 152                           | All                                      | Except Be-, V-, Cu- ,<br>Mn-, Ni-alloys and<br>Stainless <sup>6</sup> |  |                                       |                               |
| IV     | All processes class I                           | Painted /                                | No Pb containing  | GV low <sup>3</sup>  |                                       | FFP3,                         |
|        |   | primed / oiled                           | primer  |  | FFP2 <sup>5</sup>                     | TH2/P2,                       |
|        | All processes class III                         | Painted /                                | No Pb containing  | GV low '   |                                       | or LDH2                       |
|        |   | primed / oiled                           | primer  | LEV low <sup>12</sup>  |                                       |                               |
| v      | MMAW 111  | Stainless, Ni-,<br>Be-, and V-<br>alloys | n.a.  | LEV high <sup>10</sup>   | TH3/P3, TH3<br>LDH3 <sup>11</sup> LDH | TH3/P3,<br>LDH3 <sup>11</sup> |
|        | FCAW 136/137                                    | Stainless,<br>Mn- and Ni-<br>alloys      |   |  |                                       |                               |
|        | GMAW 131  | Cu-alloys                                | 4   |  |                                       |                               |
|        | Powder Plasma Arc 152                           | Stainless.                               | -   |  |                                       |                               |
|        | Fowder Flashia Arc 152                          | Mn-, Ni-, and<br>Cu- alloys              |   |  |                                       |                               |
| VI     | GMAW 131  | Be-, and V-                              | n.a.  | Reduced (negative) pressured area  | TH3/P3,                               | TH3/P3,                       |
|        |   | alloys                                   |   | LEV low <sup>12</sup>  | LDH3 <sup>11</sup>                    | LDH311                        |
| VII    | Powder Plasma Arc 152<br>Self shielded FCAW 114 | Un-, high                                | Cored wire, not   | Deduced (see the based on the based of the b |                                       | -                             |
|        | Sen shielded FCAW 114                           | alloyed steel                            | containing Ba   | Reduced (negative) pressured area <sup>9</sup><br>LEV medium <sup>13</sup>   |                                       |                               |
|        | Self shielded FCAW 114                          | Un-, high                                | Corred wire.  |  | TH3/P3.                               | TH3/P3.                       |
|        | Gen americeu FCAVV 114                          | alloyed steel                            | containing Ba   | Reduced (negative) pressured area <sup>9</sup><br>LEV high <sup>10</sup>   | LDH3 <sup>11</sup>                    | LDH3 <sup>11</sup>            |
|        | All   | Painted /                                | Paint / Primer  |  | -0.10                                 | 1-0110                        |
|        |   | primed                                   | containing Pb   |  |                                       |                               |
|        | Arc Gouging and                                 | All                                      | n.a.  | 1  |                                       |                               |
|        | Cutting 8<br>Thermal Spray                      | All                                      | n.a.  |  |                                       |                               |
|        | Gases Brazing 9                                 | Cd- alloys                               | n.a.  | 4  |                                       |                               |
|        | Gases Diazing 9                                 |  | l n.a.<br>Closed system or Confi                                      | ined space <sup>15</sup>   |                                       | 1                             |
| 1      | Laser Welding 52                                | All                                      | Closed system   | GV medium <sup>4</sup>   | n.a.                                  | n.a.                          |
| •      | Laser Cutting 84                                | 2.01                                     | closed system   |  | 11.56.                                | 1                             |
| /111   |   | All                                      | Confined onces  | LEV high <sup>10</sup> External air supply   | LDH3 <sup>11</sup>                    | LDH3 <sup>11</sup>            |
| AH -   | All   | MI                                       | Confined space  | LEV high External air supply   | LDH3                                  | LDHS                          |

· 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.

> (Contd. on page 9) EU

(Contd. of page 7)



## according to 1907/2006/EC, Article 31

Version number 3

Revision: 05.08.2020

#### Trade name: HILCO BASIC

(Contd. of page 8)

 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