

1.- IDENTIFICATION OF PRODUCT AND COMPANY**1.1 Product identification:****HILO ER5356****1.2 Identified pertinent uses of the substance or mixture and uses that are advised against:**

Arc welding

1.3 Supplier's details:

Classification(s):

AWS A5.10: ER5356 EN18273 S AI 5356

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www.chavesbao.com**1.4 Emergency telephone number:**

Toxicology Information Service

Telephone: Spain: **+34 91 562 04 20** (24/7/365)Other: [National support - Poison Centres \(europa.eu\)](https://www.europa.eu/national-support-centres)**2.- IDENTIFICATION OF HAZARDS**

General Emergency Considerations: This product is normally not considered hazardous when transported. Gloves should be used during handling to avoid cuts or scratches.

2.1 Product classification:

N.A.

2.2 Label items:

N.A.

2.3 Other hazards:

Contact with the skin does not normally carry any risk but there is a possibility of allergic reaction.

People who wear pacemakers should not approach areas in which welding or cutting operations take place without prior authorisation from both their doctor and the pacemaker manufacturer.

The greatest risks involved in using this product in welding procedures are as follows: heat, radiation, fumes and electric shock.

Fumes:

Over-exposure to welding fumes can cause dizziness, fever from the metal fumes, nausea and dryness and irritation of the nose, throat and eyes. Continued over-exposure to these fumes can affect pulmonary function. Prolonged inhalation of chromium compounds, above the limits of risk-free exposure, can cause cancer. Overexposure to manganese and manganese compounds above the limits of risk-free exposure can cause irreversible damage to the central nervous system, including the brain, with symptoms that may include difficulty speaking, lethargy, trembling, muscle weakness, psychological alterations and spastic gait.

Heat:

Projections, molten metal and the arc can cause burns and start fires.

Radiation:

The arc can cause serious damage to the eyes and skin.

Shock:

Electric shocks can kill.

3.- COMPOSITION**3.2 Mixtures:**

| SUBSTANCE | CAS No. | % |
|--------------|------------|----------|
| Si | 7440-21-3 | 0.25 |
| Fe | 7439-89-6 | 0.4 |
| Cu | 7440-50-8 | 0.1 |
| Mn | 7439-96-5 | 0.05-0.2 |
| Mg | 7439-95-4 | 4.5-5.5 |
| Cr | 7440-47-3 | 0.05-0.2 |
| Zn | 7440-66-6 | 0.1 |
| Be | 7440-41-7 | 0.0003 |
| Ti | 13463-67-7 | 0.06-0.2 |
| Others | | 0.05 |
| Total others | | 0.15 |

4.- FIRST AID**4.1 Description of first aid**

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| Inhalation | If breathing stops, perform artificial respiration and call for medical help immediately. In case of difficulty breathing, provide fresh air and call a doctor. |
| Contact with the eyes/skin | For burns caused by the arc, see a doctor. To remove dust or vapour, wash with water for at least 15 minutes. If the irritation persists, request medical assistance. For burns on the skin caused by the arc, wash immediately with cold water. Get medical assistance for burns or irritation that don't improve. To remove dust or particles, wash with neutral soap and water. |
| Electric shock | Disconnect and turn off. Use a non-conductive material to move the victim so they are no longer in contact with conductive parts or wires. If they are not breathing, start artificial breathing, preferably mouth to mouth. If they don't have a pulse, perform CPR. Call a doctor immediately. |

4.2 Main symptoms and acute and delayed effects:

N.A.

4.3 Indication of all medical assistance and special treatments that must be provided immediately.

General: Ventilate the place and seek medical assistance.

5.- FIRE FIGHTING MEASURES**5.1 Extinguishing means:**

There are no specific recommendations for welding consumables. The welding arc and its sparks can set fire to fuel and flammable materials. Use recommended extinguishing means for flammable materials and fire situations.

5.2 Specific hazards arising from the substance or mixture:

N.A.

5.3 Recommendations for fire fighting personnel:

N.A.

6.- MEASURES IN THE EVENT OF ACCIDENTAL SPILLAGE**6.1 Personal precautions, personal protective equipment and emergency procedures:**

See section 8.

6.2 Precautions in relation to the environment:

See section 13.

6.3 Methods and means of contention and cleaning:

Solid materials must be collected and placed in a container. Liquids and pastes must be collected and placed in a container. Use the right protective equipment while handling these materials. Do not throw them away as general waste.

6.4 Reference to other sections: See section 8/13.**7.- HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Handle with care to avoid pricks and cuts. Use gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some people may develop an allergic reaction to certain materials. Keep all warning and identifying labels.

7.2 Safe storage conditions, including possible incompatibilities:

Keep in a dry place.

7.3 Specific end uses:

Arc welding

8.- EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters:**

See section 8.2.

8.2 Exposure controls:

General Measures: Avoid exposure to welding fumes, radiation, projections, electric shock, hot materials and dust. Ensure sufficient ventilation and aspiration directly above the arc to eliminate fumes and gases from the welding environment. Keep the work area and protective clothing clean and dry.

Do not eat, drink or smoke in the work area.

Personal protective equipment: use protective gloves, certified safety goggles and appropriate protection for the skin for the situation.

9.- PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties:**

Appearance: aluminium wire.

Non-flammable, non-explosive. F

10.- STABILITY AND REACTIVITY

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| 10.1 Reactivity: | N.A. |
| 10.2 Chemical stability: | Stable product under normal conditions. |
| 10.3 Possibility of dangerous reactions: | N.A. |
| 10.4 Conditions that must be avoided: | This product is only suitable for manual welding procedures. |
| 10.5 Incompatible materials: | N.A. |
| 10.6 Hazardous decomposition products: | The amount of fumes generated through manual welding varies depending on the welding parameters and the dimensions. The contaminants in the air of the welding environment can be the result of the welding process and are affected by the chemical composition and quantity of fumes produced. |

11.- TOXICOLOGICAL INFORMATION**11.1 Information on the toxicological effects:**

The inhalation of welding fumes and gases can be dangerous to people's health. Classification of welding fumes is difficult due to the variety of base materials, coatings, procedures and air contamination. The International Agency for Research on Cancer (IARC) has classified welding fumes as possibly carcinogenic for humans (Group 2B).

| | |
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| Acute toxicity | Overexposure to welding fumes can lead to symptoms such as fever, dizziness, nausea and dryness or irritation of the nostrils, throat and eyes. |
| Chronic toxicity | Overexposure to welding fumes can affect pulmonary function. |

12.- ECOLOGICAL INFORMATION

Although no specific tests have been carried out, the substances that make up the product are harmful for aquatic ecosystems, for which reason their disposal in such ecosystems must be avoided.

13.- CONSIDERATIONS IN RELATION TO DISPOSAL

The user is responsible for managing waste in accordance with national and local legislation. The waste must be placed in appropriate, labelled containers for subsequent recycling or disposal under controlled conditions by an authorised management company.

14.- INFORMATION IN RELATION TO TRANSPORT


No international regulations or restrictions apply.

15.- REGULATORY INFORMATION**15.1 Specific regulations and legislation for the product in the area of health, safety and the environment:**

N.A.

15.2 Evaluation of chemical safety:

No.

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|  | FORMAT | | |
| | MATERIAL SAFETY DATA SHEET | | |
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16.- OTHER INFORMATION

The information on this Material Safety Data Sheet is based on the technical data held by Chaves Bilbao S.L. and which it believes to be reliable. Given that the conditions of use are out of our control, we take no responsibility in relation to the use made of this information, nor do we guarantee this in any way neither implicitly nor explicitly. For more information, please contact Chaves Bilbao S.L.