

1.- IDENTIFICATION OF PRODUCT AND COMPANY

- 1.1 Product identification:** **HILO E309LSi**
- 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/ASME: A5.9: ER 309L Si EN ISO 14343-A: G 23 12 L Si
- CHAVES BILBAO S.L.,
C/Bizkargi, 6 Pol. Ind. Sarrikola
E-48195 LARRABETZU Bizkaia
Tel. +34 94 412 34 56
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 \(europa.eu\)](http://National support - Poison Centres (europa.eu))


2.- IDENTIFICATION OF HAZARDS

General Emergency Considerations: This product is not normally considered hazardous when transported, however, prolonged exposure through inhalation of welding fumes could be detrimental to people's health. Gloves should be used during handling to avoid cuts or scratches.

- 2.1 Product classification:** N.A.
- 2.2 Label items:** **Nickel**
Xn – harmful
R40 – Possible risk of irreversible effects
R43 – Can be irritating in contact with the skin
- 2.3 Other hazards:** Some stainless steel contains Nickel as an alloy. This product is permanently joined to the alloy when dissolved. For this reason, the nickel present in the alloy has no effect as a potential hazardous substance. Therefore the stainless steel in the manner in which it is supplied is not dangerous for man or for the environment.
Dust and fumes may be generated during the productive processes, e.g., during welding, shaping and blasting.
If the dust or fume concentrations transported in the air are excessive and are inhaled over a long period of time, they could then affect workers' health.

3.- COMPOSITION

3.2 Mixtures:	SUBSTANCE	CAS No.	%
Steel alloyed with:	Chromium (Cr)	7440-47-3	<30
	Nickel (Ni) Not including dust	7440-02-0	38
	Manganese (Mn)	7439-96-5	11
	Molybdenum (Mo)	7439-98-7	8
	Silicon (Si)	7440-21-3	-
	Copper (Cu)	7440-50-8	-
	Titanium (Ti)	7440-32-6	-

	FORMAT		
	MATERIAL SAFETY DATA SHEET		
	Version: 2.0	Date: 03 May 2023	Page: 2 of 5

4.- FIRST AID

4.1 Description of first aid

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 doesn'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:	N.A. This product is not flammable.
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:	N.A.
6.2 Precautions in relation to the environment:	See section 13.
6.3 Methods and means of contention and cleaning:	N.A.
6.4 Reference to other sections:	See section 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. Protect the feet. 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:

Store 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:

There are no exposure limits for stainless steel products. The exposure limits apply to some of its constituents (nickel, chromium, manganese and molybdenum) and some of its components.

Dust and fumes may be generated during use, e.g., during cutting, welding and blasting processes and may contain materials in suspension that are subject to exposure limits. In these cases appropriate general or local ventilation and extraction must be provided in each case.

If there is a risk of exposure to dust and fumes and the ventilation is inadequate or inappropriate, then suitable protective breathing equipment must be provided (mask, safety goggles, etc.). Inhalation, ingestion and prolonged contact with the skin must be avoided.

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

Appearance: solid, metallic grey, appearance from matte to polished.
Flammability: non-flammable.
Solubility in water: insoluble.
Melting point: 1400-1550°C.
Density: 7.5 – 8.5g/cm³ at 20°C.

10.- STABILITY AND REACTIVITY

10.1 Reactivity:	N.A.
10.2 Chemical stability:	Stable 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:	Gases and fumes produced by welding.

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

Stainless steel can contain nickel.

Acute toxicity	Irritation of the airways and other mucous membranes. Overexposure to welding fumes: nausea, fever, dizziness, irritation of the eyes.
Chronic toxicity	Nickel is classified according to EU Directive 67/458/EC as a potentially carcinogenic substance, category 3, through ingestion or inhalation. In its normal form of delivery, under normal industry uses, the ingestion or inhalation of this product is not possible, nor is repeated exposure over a prolonged period. Nickel is classified as a material skin can be sensitive to, through very close, prolonged contact with the skin is very particular cases. Numerous tests have established that the majority of stainless steels do not cause any type of sensitisation, which means that there is no risk of developing any type of allergy or skin reaction through its use.

12.- ECOLOGICAL INFORMATION


This material is not water-soluble.

13.- CONSIDERATIONS IN RELATION TO DISPOSAL**13.1 Methods for the treatment of waste:**

Any excess and waste stainless steel is a highly valuable raw materials, and is also very easy to prepare for recycling to produce new stainless steel. Manage waste in accordance with the national legislation through an authorised management company.

14.- INFORMATION IN RELATION TO TRANSPORT

No international regulations or restrictions apply.

	FORMAT		
	MATERIAL SAFETY DATA SHEET		
	Version: 2.0	Date: 03 May 2023	Page: 5 of 5

15.- REGULATORY INFORMATION

15.1 Specific regulations and legislation for the product in the area of health, safety and the environment:

Carefully read and understand the manufacturer's instructions, the safety rules of your company and the health and safety instructions on the label. Adhere to any local legislation. Take precautions for yourself and others during welding.

PRECAUTION: welding gases and fumes can be dangerous to people's health and can damage the lungs and other organs. Use appropriate ventilation.

ELECTRIC SHOCKS can kill. ELECTRIC ARC and SPARKS can damage the eyes and cause burns.

Use protection for your hands, head, eyes and body.

15.2 Evaluation of chemical safety:

No.

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.