

1.- IDENTIFICATION OF PRODUCT AND COMPANY

- 1.1 Product identification:** **ER4043 AISi5% ROD**
- 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):
ER4043 AISi5% EN18273 Al4043
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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 \(europa.eu\)](#)

2.- IDENTIFICATION OF HAZARDS

General Emergency Considerations: This product is normally not considered hazardous when transported. Inhalation of welding fumes can be detrimental to health.

- 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.
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.
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:**

This product is a rod.

SUBSTANCE	CAS No.	%
Si	7440-21-3	4.5-6
Fe	7439-89-6	0.80
Cu	7440-50-8	0.30
Mn	7439-96-5	0.05
Mg	7439-95-4	0.05
Zn	7440-66-6	0.10
Ti	13463-67-7 (Rutile)	0.20
Others	-	0.05
Al	7429-90-5	Rest

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

Ingestion	Wash the mouth out with abundant water and seek medical advice.
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 away from conductive parts or cables. 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. It is not appropriate to apply water when the alloy is in molten state.
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:	N.A.
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:

Store carefully to avoid damage to the lining. 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:

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. If this is not possible, use breathing equipment or other suitable alternative means of respiratory protection. Keep the work area and protective clothing clean and dry. Do not eat, drink or smoke in the welding area.

Personal protective equipment: gloves, safety goggles, protection for the skin if appropriate.

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

Appearance: Metallic
Non-flammable, non-explosive.

10.- STABILITY AND REACTIVITY**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:

Metal oxide fumes are released during the welding or melting of the alloy.

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

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 negatively affect health.

12.- ECOLOGICAL INFORMATION

Due to its components, this product is harmful to aquatic environments. Avoid situations that could lead to its accumulation in the soil or in groundwater.

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

Dispose of any product, waste or recipient in a manner that is safe for the environment and following the local laws. Use recycling processes wherever possible. Correctly label containers and manage waste through an authorised waste 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:**

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.