

	Safety Data Sheet.	CAT.INFO114_rev.1
	SIDERGAS M4047	Pag. 7/9 Data revisione 04/10/2016

SAFETY DATA SHEET

Conforms to 67/548/CEE updated to 2008/58/CEE, 1999/45/CE, 2001/60/CE and Regulation 1907/2006/CE REACH.

SECTION 1. Chemical Product and Company Identification

1.1. Trade Name	
Commercial Name	SIDERGAS M4047
Classification	EN ISO 18273-S Al 4047A (AlSi12(A))– AWS A5.10 ER 4047
1.2. Application	
Description/Usage	Filler metal in wire and rods to weld and/or braze aluminium and his alloys by GMAW, GTAW, OFW.
1.3. Producer	
Company name Address Country	Sidergas S.p.A. Viale Rimembranza 17 37015 S. Ambrogio Valpolicella (VR) ITALIA tel. 045 6862044 fax 045 6861048
e-mail and contact:	info@sidergas.com - Ing. Alessandro Fagnani
1.4. Emergency telephone:	"Centro Antiveleno - Università di Torino" tel. 0039 011 6637637

SECTION 2. Hazard identification

Solid, Silvery, odourless. The product is not dangerous according CE Regulation. Non – Flammable as supplied. Small chips, fine turnings and dust may ignite readily. Explosion/fire hazards may be present when dust or fines are dispersed in the air or are in contact with water. Brazing fumes can be irritating if inhaled and if in contact with eyes. Ultraviolet radiation from welding can cause flash burns. See section 8.

SECTION 3. Composition/information on elements

Information on composition (according to Intenational Registration Record)

Element	Mg %	Zn	Mn	Si	Cu	Cr	Fe	Ti	Other cad.	Other Tot.
% p/p	max 0.10	max 0.20	max 0.15	11.00-13.00	max 0.10	-	0.60	0.15	0.05	0.15

(1) 0008 Max Be

- 0.10 – 0.60 Mn + Cr

- Max values unless shown as a range or a minimum

- Others tot. = sum of metallic elements esch $\geq 0,010\%$ and expressed to the 2nd decimal before determinate the sum.

- Chemical composition according International Registration Record.

Substance	CAS. N	Form	TWA in mg/m ³	
			D.M. 26/02/04 Ail. VIII ter	ACGIH_TLV
Al	7429-90-5	Dust and fume	-	15.5
Be	7440-41-7	All compounds of Be	-	0.002
Cu	7440-50-8	Fume	-	0.2
Fe	7439-89-6	Dust and fume, metal or oxide	-	5
Mg	7439-95-4	Oxide fume	-	10
Mn	7439-96-5	Elemental and inorganic compounds	-	0.2
Si	7440-21-3	Dust	-	10
Ti	744032-6	Oxide dust	-	10
Zn	7440-66-6	Oxide fume	-	5
Zr	7440-67-7	Elemental and inorganic compounds	-	5
Cr	7440-47-3	Metals	-	0.5

**SECTION 4. First Aid measures**

- **Skin contact:** harmful if contact with skin. After a prolonged or repeated skin contact, it may be irritating and results in dermatitis. Careful to hot surface. Wash off plenty of water and soap. If in case get medical attention.
- **Eyes contact:** wash out with plenty of water with eyelid held wide open for at least 15 minutes. Get medical attention.
- **Ingestion:** not available
- **Inhalation:** may be irritating to nose and eyes. Remove victim to fresh air. Get medical if necessary.

SECTION 5. Fire fighting measures

The product is not flammable and not combustible as shipped. Small chips and dust from processing may ignite readily. Extinguishing media are CO₂, dry chemical, foam. Extinguishing media to be avoided: water in fighting fire around molten aluminium. Fire and burning may produce irritating and toxic fumes: do not breathe fumes and protect the respiratory tract.

SECTION 6. Accidental release measures

Personal precautions: use protective gloves and clothes.
Environmental precaution: not available.

SECTION 7. Handling and Storage

7.1. Handling: handle according to safety measures. For handling, transport and storage use suitable materials. Do not breathe vapour. No Smoking. Don't eat and drink in the place where the material is used. Work in a well – ventilated place with aspiration system.

7.2. Storage: keep the container tightly closed in a cool, well ventilated place.

SECTION 8. Exposure control / Personal protection

Engineering measures: use adequate ventilation system (aspiration systems) to meet the limits listed below.

Hygienic measures: when using do not eat, drink or smoke. Wash hands after working.

Substance	CAS. N°	Form	TWA in mg/m ³	
			D.M. 26/02/04 All. VIII ter	ACGIH_TLV
Welding Fumes	-	-	-	5

Personal protective Equipment

Respiratory system: in case of insufficient ventilation (if concentration exceed the limit listed), wear suitable respiratory equipment.

Skin and body: wear impervious clothing.

Hands: wear impervious gloves to avoid any skin injury.

Eyes: wear appropriate equipment: safety goggles or face shield to prevent eye irritation and flash burns

SECTION 9. Physical and chemical properties

Physical state	Solid in wire, rod or preformed.
Colour	Silvery.
Odour	Not applicable.
Boiling point	Not applicable.
Melting point	560 – 657 °C
Density	2,7 kg/dm ³
PH	Not applicable.
Solubility in water	None.
Vapour pressure	Not applicable.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Lower explosion limit	Not applicable.
Upper explosion limit	Not applicable.

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SECTION 10. Stability and reactivity	
Stability:	stable under normal conditions of use, storage, transportation.
Conditions to avoid:	Do not keep the container opened.
Material to avoid:	Chips, fines, dust, and molten aluminium are reactive with water, strong oxidizers, acids and alkalis, halogenated hydrocarbons, iron oxide and other metal oxides, iron powder.
Hazardous decomposition products:	Not applicable

SECTION 11. Toxicological information	
Contact with skin:	moderately irritating in predisposed persons.
Ingestion:	not applicable.
Inhalation:	exposure to concentrations above the occupational exposure limit may irritate respiratory system.

SECTION 12. Ecological information.	
No ecological information is known on the product. Nevertheless it is suitable not to disperse the product in the environment.	

SECTION 13. Disposal consideration	
Methods of disposal: disposal according to the local legislation. Collect scraps for re-melting and re-cycling.	

SECTION 14. Transport information	
Material not regulated. Non dangerous material according to transport Regulations.	

SECTION 15. Regulatory Information	
Classification conforms to 67/548/EEC and 1999/45/EC and their updating:	
Hazard symbol(s):	-
Risk phrases (R)	-
Safety phrases (S)	-

SECTION 16. Other information	
<p>Before welding, keep attention to eliminate moisture on the surfaces of the base and filler metal. Arrange in advance a smoke aspiration system.</p> <p>Produce note. Every responsibility caused by the process are rule out.</p> <ul style="list-style-type: none"> - Training: welder should be trained to avoid the improper use of the product. - Note on compilation: this MSDS has been prepared according the D. L. n° 52 dated 03/02/1997, the D.L. n° 65 dated 14/03/2003 and their updating, the D.M. dated 26/02/04, the D.M. dated 07/02/2002, the Directive 1999/45/CE and it's up to date to the XXXIX APT 67/548/CEE D.M. 28/02/2006. 	

<p>The information in this MSDS relates to this specific product. It may not be valid for this product is used in combination with any other materials or in any process. This MSDS is based on our present knowledge. However, it shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship. Working methods at sites are beyond our knowledge and control. The user of the product is responsible for keeping the official legislation. This information does not have to be considered one guarantee or a specific one of the quality of the product.</p>
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