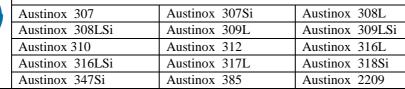
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Material Safety Data Sheet





1. Product identification

Brand:	AUSTINOX
Designations :	TIG/MIG/SAW 307, 307Si, 308L, 308LSi, 309L, 309LSi, 310, 312, 316L, 316LSi, 317L,
	318Si, 347Si, 385, 2209
Product type :	Stainless Steel Wire for GMAW, GTAW, SAW Arc Welding processes
Supplier :	SADEV Group / 2 allée des Faisans 74600 SEYNOD
	Tel +33 (0)450 33 70 72 Fax +33 (0) 450 33 70 38

2. Identification of hazards

The identified hazards are those which could occur during welding operations :

Product related hazards :

• Fumes & gases: Their composition varies with the type of filler metal and base metal on which it is applied (composition, contamination). Iron and Manganese oxides cand be emitted. Also, the electric arc can generate Nitrogen Dioxide release.

Other hazards :

- Projections of molten metal, burns due to contact with hot metallic components.
- Emission of UV rays which could induce eye damage.
- Risks of electric shocks or magnetic field exposure related to the welding equipments used (see their specific technical data sheets)

3. Product Composition

Type : Material : solid wire in spools, coils or sticks

Main chemical components (proportions vary within the ranges depending on grade):

Element	Ranges (%)	N° CAS	N°CE
Iron:	Base	7439-89-6	231-096-4
Chromium	17 - 30 %	7440-47-3	231-157-5
Nickel :	8 - 25 %	7440-02-0	231-111-4
Manganese :	1 - 3 %	7439-96-5	231-105-1
Silicium :	0.3 - 1 %	7440-21-3	231-130-8
Molybdenum :	0.3 - 3.5 %	7439-98-7	231-107-2
Copper :	< 2.0 %	7440-50-8	231-159-6

4. First Aid

In case of malaise or suffocation directly linked to fumes generated by welding, due to insufficient aspiration, ventilation or lack of individual respiratory protection, provide the patient with plenty of fresh air, follow the mandated first aid procedures and quickly consult a physician.

Burns(by contact or projection of molten metal) : apply standard first aid procedures for such injuries.

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Austinox 307	Austinox 307Si	Austinox 308L
Austinox 308LSi	Austinox 309L	Austinox 309LSi
Austinox 310	Austinox 312	Austinox 316L
Austinox 316LSi	Austinox 317L	Austinox 318Si
Austinox 347Si	Austinox 385	Austinox 2209
	Austinox 308LSi Austinox 310 Austinox 316LSi	Austinox 308LSiAustinox 309LAustinox 310Austinox 312Austinox 316LSiAustinox 317L



5. Fire hazards

Nonflammable product but packaged in cardboard or plastic boxes. All types of fire extinguishers can be used in normal conditions. Refer to specific field or workshop safety instructions for fires occuring on welding equipment.

6. Measures for accidental dispersion

Personal protection : none Protection from environment : no specific instruction Procedure for cleanups : Gathering & disposition as per paragraph 13 hereafter.

7. Précautions for stocking or safe handling of product

Safe handling : No specific instructions: However, exert caution vis-à-vis open packages to avoid risk of falling products.
 Incompatible products : Not applicable
 Dechine metericle Ne specific instructions and items 5 (% 12)

Packing material : No specific instructions, see items 5,6 & 13.

8. Prevention exposition / protection of workers

Exposition to the product : Not applicable

Exposition to fumes, projections ou UV radiation during welding operations :

Protection of personnel :

- <u>Respiratory protection</u> : Need for enough ventilation and for respiratory mask
- <u>Hand protection</u> : Wear adequate gloves
- Eye protection : Use face shield with filtered lens . Provide protected screens & flash goggles
- Skin/body protection : Use protective work clothing and adequate shield .

The following components may be released during welding operations :

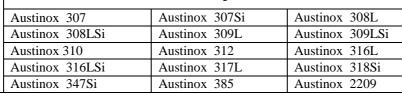
Description	TLV values	CAS-N°
Manganese and its compounds	0.2 mg/m^3	7439-96-5
Nickel metal	1.5 mg/m^3 (inhaled)	7440-02-0
Nickel compounds	0.1 mg/m^3 (inhaled)	1313-99-1
Chromium / metal & Cr3	0.5 mg/m^3	7440-47-3
Chrome Cr6	0.01mg/m^3	18540-29-9
Niobium & compounds	no set limit	7440-03-1
Ozone	0,05 ppm	10028-15-6
Nitrogen Dioxide	3 ppm	10102-44-0

Exposure limits per TLVs / ACGIH - 2011 edition (which can be revised permanently)

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9. Physical data

Shape : Wire or 1 m cut sticks, diameter 0.6 to 4.0 mm
Color : Bright metallic appearance
Odor : none
Melting point : 1400 to 1500°C
Non-flammable , non-water soluble product
Density : 7.90
Other information paragraph 9.2 - II 1907 2006 CEE : Not applicable

10. Stability & reactivity

Stable product, no decomposition in air or water Avoid contact with acidic or basic products (risk of possible gaseous emissions)

11. Health hazard information

Information pertaining to the sustances identified in paragraph 8.

- Chromium : Irritation of skin & respiratory tracts
- Chromium compounds : Irritants et carcinogens
- Nickel compounds : pulmonary carcinogens
- Manganese & compounds : can induce troubles of central nervous system .
- Niobium & compounds : respiratory & eye irritations
- Ozone : respiratory troubles
- Nitrogen Dioxyde : respiratory irritations

12. Environmental information

No known danger for the environment.

13. Disposition of various wastes

Classification of wastes :

- Wire bits / scraps : 12.01.03 (scrap of ferrous metals)
- Packagings : 15 01 0 / cardboard packaging, 15 01 02 / plastic packaging

Wastes must be disposed of in full compliance with all applicable regulations (local, national) and with maximum use of recycling.

14.Information pertaining to transport

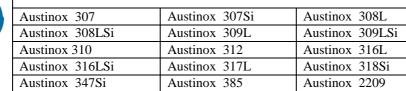
Non hazardous material, no known limitations vis-à-vis transport..

15. Labelling

Pure Nickel is classified R40, R43. All alloys containing more than 1% Nickel are classified the same way per regulation 1907/2006/CEE. However, the commercialized form (massive metal) is recognized as non-hazardous, thus no specific labelling is required.

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16. Other informations

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The information relates to this specification material, it may not be valid for this material if used in combination with any other materials or in any process. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

This information, recommendation and suggestions contained in the material safety data sheet were compiled from reference materials believed to be reliable. However, the fact sheet's accuracy or completeness is not guaranteed by either Sadev inox, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or commissions. Since conditions are beyond our control, we expressly disclaim all warranties, including warranties of merchantability and fitness for a particular purpose. This fact sheet is not intended as a licence to operate under, or recommendation to infringe upon, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users, including all applicable rules and regulations.

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