

Product Name	Bossweld 308LSi MIG Wire, Bossweld 309LSi MIG Wire, Bossweld 316LSi MIG Wire
Part Number	200030, 200031, 200035, 200036, 200037, 200045, 200046, 200075, 200076, 200080, 200081, 200080, 200081, 200086, 200087, 200089
Issue Date	09/12/2014

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: Bossweld 308LSi MIG Wire, Bossweld 309LSi MIG Wire, Bossweld 316LSi MIG Wire

PRODUCT CODES: 200030, 200031, 200035, 200036, 200037, 200045, 200046, 200075, 200076, 200080, 200081, 200080, 200081, 200086, 200087, 200089

SYNONYMS: Stainless steel in the form of wire

MANUFACTURER: Dynaweld Industrial Supplies Pty Ltd

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RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE: N/a

SECTION 2: HAZARD(S) IDENTIFICATION

The product is harmless as it is, Dangers when used:

- A. Arc rays can injure eyes and burn skin
- B. Electric shocks can kill
- C. Fumes and gases can be dangerous to your health

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	% by weight	CAS Number	EC Number	ACGIH TLV (Mg/M3)	H-Symbol	R-Phrases	SEC 313
Iron	Balance	7439-89-6	231-096-4	10 AS Fe2O3	n/a	n/a	n/a
Chromium	11.5-37.0	7440-47-3	231-157-5	0.05 Chromium VI	n/a	n/a	YES
Nickel	.06-37.0	7440-02-0	231-111-4	1	Xn	R40/R43	YES
Manganese	0.6-14.0	7439-96-5	231-105-1	1	n/a	n/a	YES
Silicon	30-5.0	7440-21-3	231-130-8	3 AS SiO2	n/a	n/a	n/a
Molybdenum	0.05-6.0	7439-98-7	231-107-2	10	n/a	n/a	n/a
Carbon	0-1.0%	7440-44-0	231-153-3	2	n/a	n/a	n/a
Phosphorus	0-0.50%	7723-14-0	231-768-7	0.02-0.1	n/a	n/a	n/a
Aluminium	≤0.1	7429-90-3	231-072-3	n/a	n/a	n/a	n/a
Cobalt	≤0.2	7440-48-4	231-158-0	n/a	Xn	R42/R43	n/a
Sulfur	0-0.50	7704-34-9	231-722-6	n/a	n/a	n/a	n/a
Nitrogen	0-0.50	7727-37-9	231-783-9	n/a	n/a	n/a	n/a
Copper	0-5.0	7440-50-8	231-159-6	1	n/a	n/a	n/a
Titanium	0-1.0	7440-32-6	231-142-3	n/a	n/a	n/a	n/a
Niobium	0-1.0	7440-03-1	231-113-5	n/a	n/a	n/a	n/a

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SECTION 4: FIRST AID MEASURES

No first aid measures required for un-used wire, during welding refer below:

Area of Exposure	Type of Exposure	First Aid Measures
Eyes	arc glow and/or fumes	Dampen with fresh water
Skin	burns, erythema	Stop exposure, submerge effected area in cold water until burning sensation ceases and seek medical attention
Respiratory tract	fumes inhalation	Bring the injured person to a ventilated place
Body	Electric shock	If necessary resuscitate and seek immediate medical attention

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

Call for medical aid. Employ first aid techniques. Eyes and skin: If irritation or flash burn develops after exposure, consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Welding arc and sparks can ignite combustibles and flammables.

SUITABLE EXTINGUISHING EQUIPMENT: n/a

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Solid, massive form is not combustible under normal conditions. Use fire-fighting methods that are appropriate for surrounding fire.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:

Fire fighters should wear self-contained breathing apparatus and protective clothing

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not applicable to steel in the solid state

ACCIDENTAL RELEASE MEASURES:

Crushing of the product should be avoided.

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: None

ENVIRONMENTAL PRECAUTIONS: None

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: None

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SECTION 7: HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING:**

High-density solid product; avoid storing in unstable positions; handle with care; protect your hands and feet.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS-No.	Chemical Name	TLV mg/m
1344-09-08	Silicates Minerals	10
7440-02-0	Nickel	1
7439-89-6	Iron	10
7440-47-3	Chromium and chromium alloys	0.5(b)
7439-96-5	Manganese and/or manganese alloys and compounds (as Mn)	0.2
7440-03-1	Niobium alloy (as Nb) (347 type only)	10
7439-98-7	Molybdenum alloys (as Mo)	10

ENGINEERING CONTROLS: n.a

INDIVIDUAL PROTECTION MEASURES

Exposure Area	Protection Measure
Respiratory	Avoid inhaling fumes/gases; be sure there is enough ventilation and/or fumes extractors are available.
Eye	Use helmets with suitable shielding glass or face shields
Skin	Cover exposed areas with appropriate clothing
Ear	Use ear protectors and/or ear plugs

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Hand	Use welding gauntlets
Thermal	Wear heat protective clothing

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Shiny/bright or matte
ODOUR:	Odorless
ODOUR THRESHOLD:	n.a
pH:	n.a
MELTING POINT	1600-2100°C
INITIAL BOILING POINT AND BOILING RANGE:	n.a
FLASH POINT:	n.a
EVAPORATION RATE:	n.a
FLAMMABILITY (solid, gas):	n.a
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	n.a
THERMAL EXPANSION AT ROOM TEMPERATURE:	10-18x10 ⁻⁶ per degree centigrade
THERMAL CONDUCTIVITY:	20-30W/m°C
VAPOUR PRESSURE:	No
VAPOUR DENSITY:	No
DENSITY (AIR = 1):	7.7-8.1g/cm ³
WATER SOLUBILITY:	Insoluble
PARTITION COEFFICIENT: N-OCTANOL/WATER:	n.a
AUTO-IGNITION TEMPERATURE:	n.a
DECOMPOSITION TEMPERATURE:	n.a
VISCOSITY:	n.a
SPECIFIC GRAVITY:	8.33-8.94

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	n.a
CHEMICAL STABILITY:	Stable
POSSIBILITY OF HAZARDOUS REACTIONS:	n.a
CONDITIONS TO AVOID:	n.a
INCOMPATIBLE MATERIALS:	n.a
HAZARDOUS DECOMPOSITION PRODUCTS:	n.a

SECTION 11: TOXICOLOGICAL INFORMATION**TOXICOLOGICAL INFORMATION:**

The product is not toxic as it is; when in use, refer to Sections 2 and 8.
Prolonged operation causes chronic effects to eyes, ears and respiratory tract,

SECTION 12: ECOLOGICAL INFORMATION

Welding process can affect the environment if fume is released directly into the atmosphere. Cr is suspected of being very toxic to aquatic organisms and may cause long term adverse effect in the aquatic environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Prevent waste from contaminating surrounding environment. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

No international regulations or restrictions are applicable. Not a hazardous material for shipping

UN NUMBER:	n.a
PROPER SHIPPING NAME:	n.a
TRANSPORT HAZARD CLASS:	n.a
PACKING GROUP:	n.a
ENVIRONMENTAL HAZARDS FOR TRANSPORT PURPOSES:	n.a
SPECIAL PRECAUTIONS FOR USER:	n.a
ADDITIONAL INFORMATION:	n.a
HAZCHEM OR EMERGENCY ACTION CODE:	n.a

SECTION 15: REGULATORY INFORMATION

MONTREAL PROTOCOL (OZONE DEPLETING SUBSTANCES):	n.a
THE STOCKHOLM CONVENTION (PERSISTENT ORGANIC POLLUTANTS):	n.a
THE ROTTERDAM CONVENTION (PRIOR INFORMED CONSENT):	n.a
BASEL CONVENTION (HAZARDOUS WASTE):	n.a
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):	n.a
SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:	n.a

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

Dynaweld Industrial Supplies Pty Ltd requires that all customers read this product card carefully so as to be informed about the risks implied in the use of the product, and provide any person involved with a copy of the same and/or adequate training on the use of the product.

This card has been drawn up in consideration of the directions contained in the information cards on welding fumes, published by the International Institute of Welding (IIW) and available in the Italian language at the Italian Institute of Welding, Genos.