

SAFETY DATA SHEET



Rev. 1

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name PZ6500 TIG Welding Wire
Other Name
Use Gas Shielded Electric Arc Welding Solid Wire in rods for professional use only
Supplier Weldwell New Zealand
Address 64 Thames Street, Napier, New Zealand
Telephone No +64 6 834-1600
Facsimile +64 6 835 4568
Emergency Telephone No CHEMWATCH 61 8 83720609 A/Hours 61 4 19864812

2 HAZARDS IDENTIFICATION

Dangerous Goods Non-Dangerous Goods
Hazardous Substances
HSNO Classifications None
Hazard Statements
Precautionary Statements Wear suitable protective clothing and use only in well ventilated areas. May cause eye and skin irritation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product is not considered to be hazardous and does not contain hazardous components.

<u>Chemical Entity</u>	<u>Cas No./EC No./EC Index</u>	<u>Values</u>
Iron	7439-89-6 / 231-096-4 / ----	ca. 97%
Manganese	7439-96-5 / 231-105-1 / ----	ca. 1.30-1.60%
Silicon	7440-21-3 / 231-130-8 / ----	ca. 0.70-1.00%

4 FIRST AID MEASURES

Inhalation: Assure fresh air breathing.
Skin contact: Stop exposure.
Eye contact: Minimize exposure to light.
Ingestion: Ingestion unlikely. Rinse mouth.
Electric shock: Electrical circuits must be shut off as soon as possible. Prepare to administer resuscitation in case of cardiac or respiratory failure. In case of respiratory arrest, administer artificial respiration.

General information: In all cases obtain medical attention. If possible show this sheet.

5 FIRE-FIGHTING MEASURES

Flammable class:	The product is not flammable.
Prevention:	Welding hot slag or sparks may cause fire. Keep away from combustible material.
Surrounding fires:	Use water spray or fog for cooling exposed containers.
Protection against fire:	Wear proper protective equipment.

6 HANDLING AND STORAGE

Storage:	Store in dry protected location to prevent any moisture contact. Keep Container closed when not in use.
Handling:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:	Before any use, it is necessary to read the safety data sheet of the protection gas linked to the wire.
Respiratory protection:	Do not breathe gas/fumes/vapour. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection:	Welding gloves.
Skin protection:	Skin protection appropriate to the conditions of use should be provided.
Eye protection:	Use a protection mask equipped with suitable filter glasses. Interdiction to wear contact lenses.
Ingestion:	When using, do not eat, drink or smoke.
Industrial hygiene:	Provide local exhaust or general room ventilation to minimize fumes concentrations.

8 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid.
Colour:	Copper.
Odour:	Odourless.
Melting point [°C]:	ca. 1500

9 STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.		
Hazardous decomposition products:	Formation of dangerous fumes during use.		
	According to process conditions, hazardous products may be generated. Such as:		decomposition
Al ₂ O ₃	CAS 001344-28-1	EC 215-691-6	TLV (mg/m ³): 10
CO	CAS 000630-08-0	EC 211-128-3	TLV (mg/m ³): 29
CO ₂	CAS 000124-38-9	EC 204-696-9	TLV (mg/m ³): -
CaO	CAS 001305-78-8	EC 215-138-9	TLV (mg/m ³): 2 (Ca)
Cr	CAS 007440-47-3	EC 231-157-5	TLV (mg/m ³): 0.5
Fe	CAS 007439-89-6	EC 231-096-4	TLV (mg/m ³): 1 (insoluble)
F	CAS 007789-96-5	EC 232-188-7	TLV (mg/m ³): 2.5
MgO	CAS 001309-48-4	EC 215-171-9	TLV (mg/m ³): 10
Mn	CAS 007439-96-5	EC 231-105-1	TLV (mg/m ³): 0.2
Mo	CAS 007439-98-7	EC 231-107-2	TLV (mg/m ³): 10
NO ₂	CAS 010102-44-0	EC 233-272-6	TLV (mg/m ³): -
Ni	CAS 007440-02-0	EC 231-111-4	TLV (mg/m ³): 1 (insoluble)
Ni	CAS 007440-02-0	EC 231-111-4	TLV (mg/m ³): 0.05 (soluble)
O ₃	CAS 010028-15-6	EC 233-069-2	TLV (mg/m ³): -
PbO	CAS 001317-36-8	EC 215-267-0	TLV (mg/m ³): 0.05
Si	CAS 007440-21-3	EC 231-130-8	TLV (mg/m ³): 10 (SiO ₂)
SiO ₂	CAS 014808-60-7	EC 238-878-4	TLV (mg/m ³): 10
TiO ₂	CAS 013463-67-7	EC 236-675-5	TLV (mg/m ³): 10
Cr (III)	CAS 012018-00-7	-----	TLV (mg/m ³): 0.5
Cr (VI)	CAS 001308-39-9	-----	TLV (mg/m ³): 0.05
K ₂ O	CAS 012136-45-7	-----	TLV (mg/m ³): -
Na ₂ O	CAS 001313-59-3	-----	TLV (mg/m ³): 2 (NaOH)
BaO	CAS 001304-28-5	-----	TLV (mg/m ³): 0.5 (Ba)

Threshold Limit Values (TLV-TWA) given according to ACGIH.

The TLV limit of the above elements is function of the national reglementation.

Hazardous properties:	Welding fumes are classified carcinogen by the ICRC (International Center of Research on Cancer) Group : 2 B. Cancer suspected agent.
Materials to avoid:	Avoid contact with: Acids. Oxidizing agent.
Other information:	In case of work on parts covered by coatings such as: Lubricant, Grease, Paint, Solvent, Metallic compounds, etc. The thermal or photochemical decomposition products of these elements cumulate with the dusts and fumes emitted by the melting of the welding products. The solution to adopt must be, in any case, preceded by a spot study. Refer to the Document "Health and Safety in Welding" published by the International Institute of Welding (IIS/IIW).

10 TOXICOLOGICAL INFORMATION

Toxicity information: This material or its emissions may induce an allergic or sensitization reaction and thereby aggravate existing systemic disease.

11 ECOLOGICAL INFORMATION

Ecological effects Information: This product contains no hazardous components for the environment. Avoid release to the environment.

12 DISPOSAL CONSIDERATIONS

Disposal: Comply with local regulations for disposal.
Industrial Waste Number: 120101 Ferrous metallic scraps.
120113 welding wastes.

13 TRANSPORT INFORMATION

General Information: Not regulated.

14 REGULATORY INFORMATION

Symbol(s) None
R-Phrase(s) None
S-Phrase(s) None

16 OTHER INFORMATION

Warning: Fumes and gases emitted during welding may be dangerous. Good ventilation of the workplace required. Electric rays may burn eyes and skin. Electric shocks can kill. Wear proper protective equipment.

Directive 2002/95/CE (ROHS): Can be used in the fabrication of electric and electronic devices.

Training advice: Ensure that user is aware of the potential hazards and knows what to do in the event of an accident or an emergency.

Recommended uses and Restrictions: Contact your supplier in case of doubt.

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