

# Material Safety Data Sheet

## Zirconiated Tungsten Electrode

### Section 1: Product Information

Supplier's Name



Manufacturer's Name

Refer to Supplier

Address

2300 Winston Park Dr  
Oakville, ON L6H 7T7

Address

Refer to supplier

Telephone Number

(905) 829-8780  
1-800-268-4833

Telephone Number

Refer to Supplier

Trade Name: Zirtung

Chemical Formula: N/A

Product Use

Electrode for GTAW

### Section 2: Hazardous Ingredients

Hazardous Ingredients	Approximate Concentration %	CAS Number	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	LC50	LD50
<b>Tungsten</b>	<b>≥99.1</b>	<b>9440-33-7</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Zirconium Oxide</b>	<b>0.15 - .040</b>	<b>1314-23-4</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

### Section 3: Physical Data

Physical State: Solid	Boiling Point: 5900°C
Odour and Appearance: Silver-Grey Rod	Freezing Point: N/A
Odour Threshold(PPM): N/A	Solubility in Water (20 °C): N/A
Specific Gravity: 19.3gm/cc	% Volatile (by Volume): N/A
Vapour Pressure(MM): 1.93 x 1015	pH: N/A
Vapour Density (Air =1): N/A	Coefficient of Water/Oil Distribution: N/A
Evaporation Rate: N/A	

#### **Section 4: Fire or Explosion Hazard**

Flammable: No. However, arcs and sparks could be the source of ignition of combustible products.

Means of Extinction: Will not burn. Use water to cool.

Flashpoint: N/A

Upper Flammable Limit (% by volume): N/A

Lower Flammable Limit (% by volume): N/A

Auto ignition temperature: N/A

Hazardous Combustion Products: N/A

Explosion data-sensitivity to mechanical impact: N/A

Explosion data-sensitivity to static discharge: N/A

#### **Section 5: Reactivity Data**

Chemical Stability: Yes

Incompatibility to other substances: Yes

If so, which ones? Strong oxidizing agents

Reactivity under what conditions? N/A

Hazardous decomposition products: N/A

#### **Section 6: Toxicological Information**

Skin Contact: No

Skin Absorption: No

Eye Contact: No

Inhalation Acute: Yes

Inhalation Chronic: Yes

Ingestion: No

Effects of acute exposure to the material: Radiant energy can produce flash burns of the eyes and skin. Overexposure to fumes can cause personal injury. Symptoms vary according to the process. These may include dizziness, nausea, or dryness or irritation of nose, throat and eyes.

Effects of chronic exposure to the material: May cause bronchitis. Deposits could enter lungs, impairing lung function and causing possible irreversible tissue damage.

Exposure Limits	N/A	Reproductive Toxicity	N/A
Irritancy of Material	N/A	Teratogenicity	N/A
Sensitization to Material	N/A	Mutagenicity	N/A
Carcinogenicity	N/A	Toxicologically synergistic products	N/A

### **Section 7: Preventive Measures**

Personal Protective Equipment:

Eyes: Welding helmet and safety specs

Hands: Leather welding gloves

Respirator: Weld fume respirator or air line respirator for confined spaces or where exposures are above TLV.

Other: Welder's protective clothing should be worn for protection against sparks and hot metal.

Engineering Controls: Local or mechanical ventilation in confined spaces and where exposures are above TLV's. Use air monitoring to ensure that TLV's are not exceeded.

Leak or Spill Procedure: N/A

Handling Procedures and Equipment: N/A

Waste Disposal: Unused portions may be disposed as industrial waste.

Storage Requirements: N/A

Special Shipping Information: N/A

### **Section 8: First Aid Measures**

If overexposure to fumes occurs, move to fresh air and seek medical attention.

### **Section 9: Preparation Information**

Prepared by: Techniweld  
(905) 829-8780  
1-800-268-4833

Date Prepared: January 1, 2015

The manufacturer believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, the manufacturer cannot make any express or implied warranty as to this information.