

Material Safety Data Sheet

2% Thoriated 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

Thoriated Tungsten

Chemical Family

Metals

Chemical Formula:

EWTH-2

Product Use

Electrode for GTAW

Section 2: Hazardous Ingredients

Hazardous Ingredient	Approximate Concentration %	CAS Number	LC50	LD50
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Tungsten	≥97.3	7440-33-7	N/A	N/A
Thorium Dioxide	1.7 – 2.2	1314-20-1	N/A	N/A

Section 3: Physical Data

Physical State: Solid	Boiling Point: 5900°C
Odour and Appearance: Silver-grey rods in various diameters.	Freezing Point: N/A
Odour Threshold(PPM): N/A	Solubility in Water(20): N/A
Specific Gravity: 19.3 GM/CC	% Volatile (by Volume): N/A
Vapour Pressure(MM): 1.93X1015	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
Means of Extinction: Will not burn. Use cool water to cool.
Flashpoint: N/A
Upper Flammable Limit (% by volume): N/A
Lower Flammable Limit (% by Volume): N/A
Autoignition 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 Properties

Route of Entry:

Skin Contact: N/A
Skin Absorption : N/A
Eye Contact: N/A
Inhalation Acute: Yes
Inhalation Chronic: Yes
Ingestion: N/A

Effects of acute exposure to the material:

Radiant energy can produce “flash burns” of eyes and skin. Electric shock can kill. Over exposure to fumes can cause personal injury. Symptoms vary according to 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:

- *Leather Welding Gloves**
- *Welding Helmet or Safety Specs**
- *Weld fume respirator or air line respirator for confined spaces or where exposures are above TLV.**
- *Welders' protective clothing for protection against sparks and hot metal is recommended.**

Engineering Controls:

Local or mechanical ventilation where necessary.

Leak or spill procedure: N/A

Handling procedures and equipment:

Arcs and sparks could be source of ignition of combustible products. Prevent fires.

Waste Disposal:

Unused portions may be disposed of as industrial waste.

Storage Requirements: N/A

Special shipping Information: N/A

Section 8: First Aid Measures

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

Section 9: Preparation Information

Prepared by: Techniweld
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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.