
1 IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: North Tungsten Electrode Thoriated
Part Numbers: TR0004-10, TR0004-16, TR0004-24, TR0004-32, TR0004-40, TR0004-48
Other Names: None
Recommended Use: Welding Wire
Supplier's Name: SPW Group Pty Ltd
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2 HAZARD IDENTIFICATION

Hazardous Classification

This product is hazardous according to the criteria of the ASCC, is not a DG Substance according to the ADG Code, is not a Scheduled Poison according to the SUSDP, is not a flammable or combustible liquid according to AS 1940 and is listed on the AICS. Thorium emits low-level radiation. The level from this product is less than cut-off values.

Risk Phrases None allocated

Safety Phrases None allocated

3 COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Tungsten	7440-33-7	Approx. 98%
Thorium Oxide	1314-20-1	Approx. 2%

4 FIRST AID MEASURES

Symptoms of Exposure by Route

Ingested Unlikely to occur, product is a coated solid wire. If solid or aerosol are ingested seek immediate medical assistance.

Eyes Fragments or aerosol will cause eye irritation. Hot fragments may cause corneal burns.

Skin Burns will result from contact with hot wire while welding.

Inhaled Prolonged or repeated exposure to fumes from welding may have adverse health effects.

First Aid Instructions

Ingested	Do not induce vomiting unless following medical directions. Rinse mouth out with water. Give water to drink. If symptoms persist seek prompt medical assistance.
Eyes	Hold eyelids open and flush eyes with clean water for 15 minutes. Hold eyelids open and away from eye to ensure that the inside of the lids are carefully flushed clean. If symptoms persist or corneal damage is present seek prompt medical advice.
Skin	Remove contaminated clothing (under deluge shower if necessary). Wash affected area for 10 minutes with soap and water. Do not rub hard. Rinse well for a further 5 minutes and pat dry. If symptoms persist seek prompt medical advice.
Inhaled	Remove patient to fresh air. Loosen tight clothing and allow to rest. Treat for shock if required. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Unless recovery is prompt seek urgent medical advice.
First Aid Facilities	Provide normal industrial first aid facilities including eyewash stations and deluge showers, where appropriate, close to the area where product is in use.

Notes to Physician (for symptoms of over-exposure to this product see above)

Possible symptoms of Chronic Health Effects

None relevant to product.

Possible aggravated pre-existing conditions

None relevant to product.

Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reactions to the exposure. For further information contact the:

POISONS INFORMATION CENTRE 13 11 26

5 FIRE FIGHTING MEASURES

Flammability and Explosion Hazards

Product is not flammable.

Hazardous Combustion Products

Welding or destruction by fire produces fumes containing tungsten and thorium oxide

Suitable Extinguishing Media

Use dry chemical suitable for metallic fires.

Hazchem Code: n.all.

Precautions for Fire Fighters and Special Equipment

Wear SCBA and normal turn out clothing.

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures – Spills and Leaks (See Section 13 for disposal considerations)

Prevent product entering drains or waterways. Sweep up or collect product and return to store if serviceable. Unserviceable product should be recovered or placed in suitable waste receptacles ready for disposal.

7 HANDLING AND STORAGE

Handling Advice

Wear suitable clothing for task.

Storage Advice

Store in a cool, dry and well-ventilated area. Keep in an area where the minimum amount of pedestrian traffic takes place. Keep away from foodstuff and foodstuff empties. Avoid unnecessary handling to minimise exposures.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

The ASCC has not set an exposure standard for the product. The fumes arising from welding have an Exposure Standard of:

Substance	TWA	STEL
Welding fumes (Must be measured inside welder's helmet)	5 mg/m ³	n.est.

Engineering Control Methods

Provide local exhaust fume extractors and ventilators capable of maintaining the workplace below the exposure limits.

Personal Protective Equipment

Respiratory Protection

Take normal welding precautions as appropriate.

Eye Protection

Wear welder's helmet.

Gloves

Wear thermal protective gloves while welding.

Clothing

Wear thermal protective apron if engaged on welding work. If not welding, wear Tyvec or cotton coveralls fastened at the neck and wrists.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Metal grey solid wire	Odour	Odourless
Melting Point	3680°K	Boiling Point	5828°K
Specific Gravity	18.7 g/cm	Flammability Limits	n.a.
Flash Point	n.a.	Vapour Density	n.d.
Vapour Pressure	n.d.	AS1940 Class	n.a.
Solubility (H₂O)	insoluble		

Other Properties

Thorium, present at approximately 2 %, is very slightly radioactive. Emissions are reported to be less than cut-off value for classification.

10 STABILITY AND REACTIVITY

During normal handling and use the product is stable

11 TOXICOLOGICAL INFORMATION

No data relevant to product as sold was found.

12 ECOLOGICAL CONSIDERATIONS

Will not biodegrade. Do not dispose of into water and standard waste facilities.

13 DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local regulations for hazardous wastes. Warn authority that product is slightly radioactive.

14 TRANSPORT INFORMATION

No DG regulatory requirements apply to the transport of this product.

15 REGULATORY INFORMATION

Label in accordance with the "National Code of Practice for the Labelling of Workplace Substance" [ASCC: 2012 (1994)] with the word HAZARDOUS. A list of ingredients must be displayed on the label using the names given on page one of this SDS.

16 OTHER INFORMATION

Disclaimer

No representative of SPW Group Pty Ltd any other person has the authority to alter or amend this SDS or the information contained therein without the prior approval of SPW Group's management. Any alterations render this document invalid. The information presented in this SDS is believed by SPW Group to be accurate at the date shown and in accordance with information available to the Company. The circumstances and methods of using, handling, transporting or storing the material are beyond our control and persons using, handling, transporting or storing the product do so at their own risk. SPW Group accepts no liability for damage or injury arising from the use of the information contained herein.

Data Sources used: in the preparation of this MSDS include: "Chempendium" and "MSDS plus Cheminfo" published in CD format by CCOHS Canada 2005 - 4. "TOMES" a CD database published by Micromedex, USA, "Hazardous Properties of Industrial Materials" Van Nostrand Rheinhold NY, USA . "List of Designated Hazardous Substances" NOHSC 10005:1999, "National Exposure Standards" NOHSC 1003:1995.

Abbreviations used: n.d = not determined, n.a = not applicable, n.all =not allocated, SUSDP=Standard for the Uniform Scheduling of Drugs and Poisons, ADG=Australian Dangerous Goods Code, IATA =International Air Transport Association, (Dangerous Goods Regulations), IMDG=International Maritime Dangerous Goods (Code), ASCC=Australian Safety and Compensation Council. IARC=International Agency(for) Research (of) Cancer.

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