

| Product Name        | Bossweld Tungsten Electrodes  |
|---------------------|---|
| Part Number         | 900301-900303, 900320-900322, 900308, 900310-900313, 900330-900332, 900341-900343, 900350 |
| SDS Document Number | SDS_Bossweld_Tungsten_Electrodes_V1.1_060121  |
| Issue Date          | 07/01/21  |

# 1 Product identifier & identity for the chemical

#### 1.1 Product Identifier

Product Name: Bossweld Lanthanated Tungsten Electrodes, Bossweld Zirconated Tungsten Electrodes, Bossweld 2%

Thoriated Tungsten Electrodes, Bossweld Ceriated Tungsten Electrodes, Bossweld Rare Earth Tungsten

Electrodes and Bossweld Multi Pack Tungsten Electrodes

Part Numbers: 900301-900303, 900320-900322, 900308, 900310-900313, 900330-900332, 900341-900343, 900350

Synonyms: N/A

#### 1.2 Other means of identification

N/A

### 1.3 Recommended use of the chemical and restrictions on use

Tungsten electrode for TIG welding. Not to be used for any other purpose.

### 1.4 Suppliers name, address and phone number

Supplier Name: Dynaweld Industrial Supplies Pty Ltd

Address: Building 2, 10 Jessica Place, Prestons NSW 2214, Australia

Phone: +61 2 8761 6500

Email: sales@dynaweld.com.au

Web Site: https://www.dynaweld.com.au

# 1.5 Emergency phone number

Emergency Phone: +61 2 8761 6500 (Australia)

# 2 Hazard Identification

## 2.1 Classification of the hazardous chemical

This product is classified as Hazardous Chemical – Non-Dangerous Goods according to Globally Harmonized System of classification and labelling of chemicals (GHS).

# 2.2 Label elements, including precautionary statements

Signal Word: DANGER

Symbols:



### **Hazard Statements:**

| azara otatomone.  |   |  |
|---|---|--|
| H317 May cause an allergic skin reaction                            |   |  |
| H319  | Causes eye irritation   |  |
| H334  | May cause allergy or asthma symptoms or breathing difficulties if inhaled |  |
| H340 Suspected of causing genetic defects                           |   |  |
| H351 Suspected of causing cancer                                    |   |  |
| H370  | Causes damage to organs (kidneys, respiratory system)                     |  |
| H372 Causes damage to organs through prolonged or repeated exposure |   |  |
| H410  | Very toxic to aquatic life with long lasting effects                      |  |



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Precautionary Statements Prevention:

| 1 Todationary Citatornonia 1 Toversion.   |   |
|---|---|
| P201 Obtain special instructions before use   |   |
| P202  | Do not handle until all safety precaustions have been read and understood |
| P260  | Do not breathe dust/fume/gas/mist/vapours/spray                           |
| P261  | Avoid breathing dust/fume/gas/mist/vapours/spray                          |
| P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product |   |
|   |   |
| P273 Avoid release to the environment   |   |
| P280  | Wear protective gloves/protective clothing/eye protection/face protection |

Precautionary Statements Response

| P284               | In case of inadequate ventilation wear respiratory protection  |
|--------------------|--|
| P308 + P313        | IF exposed or concerned: Get medical advice/attention  |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P342 + P311        | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.   |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water   |
| P333 + P313        | IF skin irritation or rash occurs: Get medical advice/attention  |
| P363               | Wash contaminated clothing before reuse  |
| P308 + P311        | If exposed or concerned: Seek medical advice / attention. Collect spillage.  |

### Precautionary Statements Storage

| P402 - | + P404 | Store in a dry place. Store in a closed container |
|--------|--------|---|

# Precautionary Statements Disposal

| , |        | = ·- <del> </del> ··  |
|---|--------|---|
|   |        |   |
|   |        |   |
|   | DE04   | Discourse of a substant to substant in a substant and a substant to a substant and attended |
|   | P501   | Dispose of contents/container in accordance with local regulations                          |
|   | 1 00 1 | Biopodo di contonto contambi in accordance with local regulatione                           |

## 2.3 Other hazards which do not result in classification

No other information provided.

# 3 Composition/information on ingredients

# 3.1 Identity of chemical ingredients

| Name/ Tip Colour        | Chemical Composition   | Tungsten % |
|-------------------------|--|------------|
| Thoriated / Red Tip     | ThO <sub>2</sub> : 1.70-2.20   | ≥97.30     |
| Lanthanated / Gold Tip  | LaO <sub>2</sub> : 1:30-1:70   | ≥97.80     |
| Ceriated/ Grey Tip      | CeO <sub>2</sub> : 1:80-2.20   | ≥97.30     |
| Zirconated / White Tip  | ZrO <sub>2</sub> : 0:70-0:90   | ≥98.60     |
| Rare Earth / Purple Tip | 1.5% La <sub>2</sub> O <sub>3</sub> , 0.8% ZrO <sub>2</sub> & 0.8% Y <sub>2</sub> O <sub>3</sub> | ≥96.88     |



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#### 3.2 CAS number and other unique identifiers

Note: See section 3.1

#### 3.3 Concentration of ingredients

Note: See section 3.1

# 4 First Aid Measures

### 4.1 Description of necessary first aid measures

General: If exposed or concerned get medical advice / attention.

Get medical advice/attention if you feel unwell.

Inhalation: If fumes, aerosol or combustion products are inhaled remove from the contaminated area.

Other measures are usually unnecessary

Skin contact: Seek medical attention in event of irritation.

In case of burns: Quickly immerse affected area in cold running water for 10 to 15 minutes. Bandage lightly with a sterile dressing. Treat for shock if required. Lay patient down. Keep warm and rested.

Transport to hospital or doctor.

Eye contact: DO NOT attempt to remove particles attached to or embedded in eye. Lay victim down, on stretcher if available and

pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above

and below the eye. Seek urgent medical assistance, or transport to hospital.

Ingestion: Not considered a normal route of entry. If poisoning occurs, contact a doctor or Poisons Information

Centre 13 11 26 (Australia).

## 4.2 Symptoms caused by exposure

Short-term (acute) overexposure to welding fumes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema).

Note: Refer to Section 11 for further information.

#### 4.3 Medical Attention and Special Treatment

Treat symptomatically.

# 5 Fire Fighting Measures

As shipped, this product is non-flammable. However, welding arc and sparks can ignite combustibles and flammable products. Read and understand WTIA Technical Note No. 7 Health and Safety in Welding before using this product.

# 5.1 Suitable extinguishing media

As shipped, the product will not burn. In case of fire in the surroundings, use CO2, powder or water fog / spray. There is no unsuitable extinguishing media known.

## 5.2 Specific hazards arising from the chemical

Fire may produce irritating or poisonous gases.

#### 5.3 Special protective equipment and precautions for fire fighters

Special protective equipment: Follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus

and full protective clothing must be worn in case of fire.

Special precautions: Use firefighting procedures suitable for surrounding area. If safe to do so, remove containers from

path of fire and prevent spillage from entering drains or water courses. May produce toxic fumes of

metal oxides, poisonous fumes and corrosive fumes



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# 6 Accidental release measures

Unlikely due to form of product, however fumes may be released when the product is used.

### 6.1 Personal precautions, protective equipment and emergency procedures

If airborne dust and/or fumes are present use adequate engineering controls, and, if needed, personal protection to prevent overexposure.

Note: Refer to recommendations in Section 8.

### 6.2 Environmental precautions

Avoid release to the environment. Avoid dispersal of spilled material and contact with soil, ground and surface water drains and sewers.

### 6.3 Methods and materials for containment and cleaning up

Avoid generating dust. On land, sweep or shovel into suitable containers. Prevent product from entering any drains, sewers or water sources. During containment / clean up observe precautions with regard to the use of personal protective equipment.

Note/s: For further information, see Section 8. Refer to Section 13 for proper disposal.

# 7 Handling and Storage

### 7.1 Precautions for safe handling

Welding may produce dust, fumes, and gases hazardous to health. Avoid breathing dust, fumes, and gases. Use adequate ventilation. Keep away from sources of ignition. Avoid contact with skin, eyes and clothing. Do not eat, drink, and smoke in work areas. At the end of the work shift, hands and other exposed skin should be washed thoroughly. Follow good housekeeping practices to ensure that powders and dusts from grinding operations do not accumulate; such residue can be highly flammable and may pose special health hazards from thorium containing electrodes.

Tungsten-Thorium Oxide alloys are generally safe to handle during use under all normal conditions and environments. However, special precautions must be taken during the grinding or machining of tips of electrodes that contain Thorium Oxide to avoid the generation and subsequent inhalation and ingestion of dusts from these operations.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry, and well ventilated place. Keep away from incompatible materials. Keep away from heat and open flame.

Store in accordance with local/regional/national regulations.

# 8 Exposure controls/personal protection

## 8.1 Control parameters – exposure standards, biological monitoring

Use industrial hygiene monitoring equipment to ensure that exposure does not exceed the applicable national exposure limits.

| Chemical Name     | CAS No.   | OSHA PEL             | ACGIH TWA            | ACGIH STEL           |
|-------------------|-----------|----------------------|----------------------|----------------------|
| Tungsten          | 7440-33-7 | 5 mg/m <sup>3</sup>  | 5 mg/m <sup>3</sup>  | 10 mg/m <sup>3</sup> |
| Thorium Dioxide   | 1314-20-1 | -                    | -                    | -                    |
| Cerium Dioxide    | 1345-13-7 | -                    | -                    | -                    |
| Lanthanum Dioxide | 1312-81-8 | 15 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup> | -                    |
| Zirconium Oxide   | 1314-23-4 | 5 mg/m <sup>3</sup>  | 5 mg/m <sup>3</sup>  | 10 mg/m <sup>3</sup> |
| Yttrium Oxide     | 1314-36-9 | 1 mg/m³              | 1 mg/m³              | -                    |

Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) are values published by the American Conference of Government Industrial Hygienists (ACGIH). ACGIH Statement of Positions regarding the TLVs and BEIs states that the TLV-TWA should be used as a guide in the control of health hazards and should not be used to indicate a fine line between safe and dangerous exposures.



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### 8.2 Appropriate engineering controls

Ventilation:

Use enough ventilation, local exhaust at the arc, or both, to keep the fumes and gases below the exposure limits in the worker's breathing zone, and the general area. Keep exposure as low as possible.

Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits.

Note: See WTI Technical Note 7 – Health and Safety in Welding for further information / guidance.

# 8.3 Personal protective equipment (PPE)

| Eye<br>Protection       |          | Wear safety glasses with side shields or chemical goggles. Soft contact lenses may absorb and concentrate irritants. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.  Provide protective screens and flash goggles, if necessary, to shield others. |
|-------------------------|----------|--|
| Hand protection:        |          | Wear protective gloves. Suitable gloves can be recommended by the glove supplier.  |
| Protective<br>Clothing  |          | Wear hand, head, and body protection that will help to prevent injury from using this product.  At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Wear dry gloves free of holes or split seams.  |
| Respiratory protection: |          | Keep your head out of fumes. Use enough ventilation and local exhaust to keep fumes and gases from your breathing zone and the general area. Use respirable fume respirator, or air-supplied respirator when welding in confined space or where local exhaust or ventilation does not keep exposure below exposure limits.   |
| Hygiene<br>measures:    | <b>3</b> | Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.   |

Note: See WTI Technical Note 7 – Health and Safety in Welding for further information / guidance.



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# 9 Physical and chemical properties

|      | Property   | Product description                            |
|------|--|--|
| 9.1  | Appearance                                       | Silver-grey                                    |
| 9.2  | Odour  | Odourless                                      |
| 9.3  | Odour threshold                                  | No further relevant information available      |
| 9.4  | pH   | No further relevant information available      |
| 9.5  | Melting point/freezing point                     | Approx. 3400 °C. Freezing point not available. |
| 9.6  | Boiling point and boiling range                  | Approx. 5900 °C.                               |
| 9.7  | Flash point                                      | Not applicable                                 |
| 9.8  | Evaporation rate                                 | Not applicable                                 |
| 9.9  | Flammability                                     | No further relevant information available      |
| 9.10 | Upper/lower flammability or explosive limits     | Not applicable                                 |
| 9.11 | Vapour pressure                                  | Not applicable                                 |
| 9.12 | Vapour density                                   | Not applicable                                 |
| 9.13 | Relative density                                 | No further relevant information available      |
| 9.14 | Solubility(ies)                                  | Insoluable                                     |
| 9.15 | Partition coefficient: (n-octanol/water)         | No further relevant information available      |
| 9.16 | Auto-ignition temperature                        | No further relevant information available      |
| 9.17 | Decomposition temperature                        | No further relevant information available      |
| 9.18 | Viscosity  | Not applicable                                 |
| 9.19 | Specific heat value                              | No further relevant information available      |
| 9.20 | Particle size                                    | No further relevant information available      |
| 9.21 | Volatile organic compounds content               | No further relevant information available      |
| 9.22 | % volatile                                       | No further relevant information available      |
| 9.23 | Saturated vapour concentration                   | No further relevant information available      |
| 9.24 | Release of invisible flammable vapours and gases | No further relevant information available      |
|      | Additional parameters                            |  |
| 9.25 | Shape and aspect ratio                           | No further relevant information available      |
| 9.26 | Crystallinity                                    | No further relevant information available      |
| 9.27 | Dustiness  | No further relevant information available      |
| 9.28 | Surface area                                     | No further relevant information available      |
| 9.29 | Degree of aggregation or agglomeration           | No further relevant information available      |
| 9.30 | Ionisation (redox potential)                     | No further relevant information available      |
| 9.31 | Biodurability or biopersistence                  | No further relevant information available      |

# 10 Stability and Reactivity

# 10.1 Reactivity

The product is non-reactive under normal conditions of storage and transport.

# 10.2 Chemical stability

Stable under normal conditions of storage and transport.

### 10.3 Conditions to avoid

Avoid heat or contamination of acids, alkalis and oxidising agents.

# 10.4 Incompatible materials and possible hazardous reactions

Contact with acids, alkalis and oxidising agents could cause reaction and generation of gas.



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#### 10.5 Hazardous decomposition products

Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables used. Other conditions that also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (i.e. paint, painting, galvanizing), the number of welders, the volume of the work area, the quality and the amount of ventilation, the position of the welders head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from the cleaning and de-greasing activities).

When an electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition, and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration. Also, new compounds not in the electrodes may form. Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation of the materials shown in Section 3, plus those from the base metal coating, etc., as noted above. Reasonable expected fume constituents of this product would include: Complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen Oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Fume limit for chromium, nickel and or manganese may be reached before limit of 5 mg/m3 of general welding fumes is reached. Gaseous reaction products may include carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits .

Note: For further information refer to WTIA Technical Note No. 7 Health and Safety in Welding.

# 11 Toxicological information

Acute Toxicity: Harmful if swallowed
Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified Carcinogenicity: May cause cancer Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): May caused drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Causes damage to organs through prolonged or repeated exposure .

Aspiration hazard: Not classified

### 11.1 Information on routes of exposure

Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful. The inhalation of

small particles of metal oxide results in sudden thirst, a sweet, metallic foul taste, throat irritation, cough, dry mucous membranes, tiredness and general unwellness. Headache, nausea and vomiting, fever or chills, restlessness, sweating,

diarrhoea, excessive urination and prostration may also occur.

Ingestion: Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial

environments

Skin Contact: Skin contact does not normally present a hazard, though individuals may be found who react to substances usually

regarded as inert.

Molten material is capable of causing burns.

Eye: Fumes from welding/brazing operations may be irritating to the eyes...

Chronic: Principal routes of exposure include accidental contact with the molten metal and inhalation of fume arising as a

consequence of the action of the flame on the rod / wire. Although fume generation rates are generally low, excessive

heating of the material, well above its quoted melting point, may result in over-exposure.

#### 11.2 Symptoms related to exposure

Note: See Section 11.1



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#### 11.3 Numerical measures of toxicity

No further information available

### 11.4 Immediate, delayed and chronic health effects from exposure

Note: See Section 11.1

## 11.5 Exposure Levels

Note: See Section 11.1

#### 11.6 Interactive effects

Note: See Section 11.1

#### 11.7 Data limitations

No further information available.

# 12 Ecological information

Welding consumables and materials could degrade / weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater.

### 12.1 Ecotoxicity

Very toxic to aquatic life.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

## 12.4 Mobility in soil

No further relevant information available.

### 12.5 Other adverse effects

No further information available.

# 13 <u>Disposal considerations</u>

## 13.1 Safe handling and disposal methods

The generation of waste should be avoided or minimised whenever possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner.

### 13.2 Disposal of any contaminated packaging

Dispose of non-recyclable products in accordance with all applicable National, State, and Local requirements.

#### 13.3 Environmental regulations

Discharge, treatment, or disposal may be subject to National, State, or Local requirements.



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# 14 Transport information

No international regulations or restrictions are applicable.

### 14.1 UN number

No further relevant information available

#### 14.2 Proper shipping name

No further relevant information available

## 14.3 Transport hazard class(es)

No further relevant information available

## 14.4 Packing group

No further relevant information available

### 14.5 Environmental hazards



## 14.6 Special precautions during transport

No further relevant information available

### 14.7 Hazchem Code

Hazchem code not relevant to this product

## 15 Regulatory information

# 15.1 Safety, health and environmental regulations specific for the product in question

Regulations of each country are applied to substances / mixtures.

#### 15.2 Poisons Schedule number

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

# 16 Other information

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.

### 16.1 Date of preparation or review

6th January, 2021

## 16.2 Key abbreviations or acronyms used

BEI - Biological Exposure Indices

 $\ensuremath{\mathsf{GHS}}$  - Globally Harmonized System of classification and labelling of chemicals.

IARC - International Agency for Research on Cancer



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NTP - National Toxicology Program

PPE - Personal Protection Equipment

SUSMP - Standard for the Uniform Scheduling of Medicines and Poisons

TLVs - Threshold Limit Value

WTIA - Welding Technology Institute of Australia

Dynaweld Industrial Supplies Pty Ltd requires that all customers read this safety data sheet 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.

Whilst Dynaweld Industrial Supplies Pty Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Dynaweld Industrial Supplies accepts no liability for loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in the SDS,

**END OF SAFETY DATA SHEET**