

1. Identification of the Substance/Preparation and the Company/Undertaking

1.1. Product identifier

Substance or preparation trade name: Tungsten 3 Element

Unique reference numbers(s): 1.0MM 3

1.0MM 3/175 1.6MM 3 1.6MM 3/175 2.0MM 3 2.0MM 3/175 2.4MM 3 2.4MM 3/175 3.2MM 3/175 4.0MM 3/175 4.8MM 3 4.8MM 3/175 6.4MM 3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Electrodes for Tungsten inert gas welding (TIG)

1.3. Details of the supplier of the safety data sheet

Company/undertaking name & address: Parweld Ltd, Long Bank, Bewdley, Worcs, UK

ABN: 95 000 029 729

Telephone number: +00 44 1299 266800

Emergency telephone number: +00 44 1299 266800

1.4. Emergency telephone number

Emergency tel: +00 44 1299 266800 (office hours only)

2: Hazards identification

2.1. Classification of the substance or mixture

No Significant Hazard

2.2. Label elements

Signal words:

Precautionary statements:



2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance

3. Composition/information on ingredients

3.1. Hazardous ingredients

Tungsten	Conc. 88-100% %	CAS 7440-33-7	EINECS 231-143-9	Symbols/Risk phrases
Lanthanum (III) oxide	0 - 4%	1312-81-8	215-200-5	
Zirconium Oxide	0-4%	1314-23-4	215-227-2	
Yttrium Oxide	0-4%	1314-36-9	215-223-5	

4: First aid measures

4.1. Description of first aid measures

Skin contact: None

Eye contact: Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist. Contact lenses should be removed. Wash with water.

Ingestion: Rinse mouth and drink plenty of water .

Inhalation: Move the exposed person to fresh air. Seek medical attention if there are any adverse symptoms.

4.2 Most important symptoms and effects, both acute and delayed Eye contact: There may be irritation and redness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.



5: Fire-fighting measures

5.1. Extinguishing media

Water, A,B,C and Class D dry powder

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion produces Tungsten Trioxide WO₃ (CAS1314-35-8).

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes $\frac{1}{2}$

6. Accidental release measures

Personal precautions Ensure adequate ventilation of the working area...

Environmental precautions Do not allow product to enter drains. Prevent further spillage if

safe.

Clean up methods Absorb with inert, absorbent material. Sweep up. Transfer to

suitable, labelled containers for disposal. Clean spillage area

thoroughly with plenty of soapy water.

7. Handling and storage

Handling Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

Adopt best Manual Handling considerations when handling, carrying and dispensing.

Storage No special requirements

8. Exposure Controls

8.1 Exposure limits

Tungsten 7440-33-7 TWA 5 mg/m3 ST 10 mg/m3

Yttrium Oxide N/A
Lanthanum (III) Oxide N/A

Zirconium Oxide 1E mg/M3



8.2 Controls

Engineering measures Ensure adequate ventilation of the working area.

Hand protection Gloves or hand protection cream

Eye protection safety spectacles

Protective equipment Wear protective clothing.

Reparatory protection Particulate filtering mask (FFP3 type) recommended where

dust or aerosols are produced.









9. Physical and chemical properties

Appearance: Physical form: Solid.

Appearance: Metallic grey rods.

Odour: None.

Important relevant safety parameters:

Value Unit Test method (67/548/EEC) Mel

Flame point Non Flammable

Relative density (20°C) 18.62 g/cm3 DIN 51 757

Solubility (20°C) insoluble pH value (20°C), 5% N/A
Melting point 3680 °C
Boiling point 5828 °C
Freezing Point N/A

10. Stability and reactivity

Stability Stable under normal conditions.

Conditions to avoid Oxidation in presence of Oxygen at increase temperature (600 °C plus)

Materials to avoid Peroxides. Strong acids.

11. Toxicological information

No Acute oral, dermal or respiratory toxicity

Tungsten LD₅₀ oral Rat >2000 mg/KG

LD₅₀ dermal Rat >2000 mg/KG

LD₅₀ respiratory Rat >5.4mg/l 4Hr exposure

Lanthanum (III) Oxide LD₅₀ oral Rat >5g/KG



Yttrium Oxide LD₅₀ oral Rat >5g/KG

Acute Toxicology detected after 4 hours at 32mg/m³ and above

Zirconium Oxide No data

12. Ecological information

Non hazardous in water

13 Disposal Considerations

General information Dispose of in compliance with all local and

national regulations.

Disposal methods Contact a licensed waste disposal company. For disposal

within the EC, the appropriate code according to the European

Waste Catalogue (EWC) should be used.

Disposal of packaging Empty containers can be sent for disposal or recycling.

14. Transport information

Not classified

Further information The product is not classified as dangerous for carriage.

15. Regulatory information

Risk phrases -N/A.

16. Other Information

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH)