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| DATA SHEET FOR | |
|----------------------------|--|
| DATA SHEET FOR | |
| MULTI TYPE TUNGSTEN - GOLD | |

| 1.0 | CHEMICA | AL SPECIFICATION |
|-----|-----------|------------------------|
| 1.1 | 98% Tungs | ten + 2% Fullers Earth |
| 1.2 | Form | : bar-shaped |

1.3 Colour : Gold
1.4 Smell : scentless

2.0 TECHNICAL SAFETY AND PHYSICAL DATA Inspection by:

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|------|---|---|---------------|--------------------------------|--|--|
| 2.1 | Partition change | Melting Point | _ | Over 3000° C | | |
| | _ | Evaporizing Point | | Over 4200° C | | |
| 2.2 | Density | (20°C) | approx. | 18.8 g/cm^3 | | |
| | Bulk Density | | | $_{\rm max}$ kg/m ³ | | |
| 2.3 | Vaporization pressure | (°C) | non transient | mbar | | |
| | | (°C) | | mbar | | |
| 2.4 | Viscosity | (°C) | non viscous | mbar | | |
| 2.5 | Solubility in water | (20°C) | non soluble | g/l | | |
| | in | (°C) | | g/l | | |
| 2.6 | PH index (at 5 g/H_20) | $(20^{\circ} C)$ | | | | |
| 2.7 | Inflammability | ° C non applicable | | ° C | | |
| 2.8 | Ignition temperature | °C non applicable | | ° C | | |
| 2.9 | Explosion limits | minimum | | maximum | | |
| 2.10 | Thermal decomposition | No dangerous chemical reaction under normal | | | | |
| 2.11 | Dangerous decomposition | temperatures. | | | | |
| | products | | | | | |
| 1.12 | Dangerous/toxic reaction | From 500°C onwards oxidation to tungsten | | | | |
| | | WO•. | | | | |
| 2.13 | Miscellaneous | | | | | |
| | | | | | | |
| 3. | TRANSPORT | GGVSee/IMD | G-Code: UN- | No: ICAO/IATA-DGR | | |

GGVE/GGVS:

4. **REGULATIONS**

Regulations only applicable and valid for the TIG welding procedure, see item 5.

5. SAFETY INSTRUCTIONS FOR STORAGE AND OPERATION

RID/ADR: ADNR:

5.1 Technical safety instructions

During the process of TIG welding, well-working ventilation and air circulation must be provided as well as exhausting device to absorb welding fume.

5.2 Personal protection gear

Oxygen mask - not necessary when adequate ventilation is provided

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Hand protection - welding gloves

Eye protection - welding goggles or welding shield

Miscellaneous - there is no danger of possible emerging radioactive

Thorium regarding operation and storage of

electrodes

5.3 **Occupation hygiene** see VDI pages

5.4 **Fire and explosion protection** – no particular measurements necessary

1.5 Disposal

Electrodes may not be disposed together with conventional waste or household trash. Rest pieces must be disposed of according to the respective regulations of each country.

1.0 MEASURES NECESSARY IN CASE OF FIRE AND ACCIDENTS

1.1 After spilling, leaking, gas leakage

1.2 Extinguishing agent

Suitable materials

Not suitable materials no restrictions

1.3 First Aid

In case of prolonged inhaling of welding fume, the person concerned must be supplied with fresh air. In case of burns, eye or nose irritation, a physician must be consulted.

7.0 INFORMATION ON TOXICOLOGY

There is no danger of poisoning or infection in case of mechanical injuries with the electrodes. Damages caused by TIG welding are unknown.

8.0 INFORMATION ON ECOLOGY

Proper operation does not cause undue exhaust responsible for the increase of air, water and soil pollution.

9.0 FURTHER REMARKS REGUARDING RADIOACTIVITY

WS 2 material is mainly used for TIG welding electrodes.