

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

Product Name: 2% Ceriated Tungsten

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Identifier: 2% Ceriated Tungsten

### SECTION 2: Hazards identification



Hazard Statements:

- H335: May cause respiratory irritation due to dust or fume



### SECTION 3: Composition/information on ingredients

Mixture of metal alloys in solid wire form. Main constituents

| Substance  | CAS No.   | EC No.    | Concentration | Classification (CLP)             |
|------------|-----------|-----------|---------------|----------------------------------|
| Iron       | 7439-89-6 | 231-096-4 | 40-50%        | -                                |
| Chromium   | 7440-47-3 | 231-157-5 | 10-20%        | -                                |
| Nickel     | 7440-02-0 | 231-111-4 | 10-20%        | Carc. 2, STOT RE 1, Skin Sens. 1 |
| Molybdenum | 7439-98-7 | 231-107-2 | 1-10%         | -                                |
| Manganese  | 7439-96-5 | 231-105-1 | 1-10%         | -                                |
| Silicon    | 7440-21-3 | 231-130-8 | 1-10%         | -                                |
| Copper     | 7440-50-8 | 231-159-6 | 0-0.5%        | -                                |
| Carbon     | 7440-44-0 | 231-153-3 | 0-0.5%        | -                                |
| Phosphorus | 7723-14-0 | 231-768-7 | 0-0.5%        | -                                |
| Sulfur     | 7704-34-9 | 231-722-6 | 0-0.5%        | -                                |

### SECTION 4: First aid measures

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin contact: Wash thoroughly with soap and water.

Eye contact: Rinse cautiously with water. Remove contact lenses.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

### SECTION 5: Firefighting measures

Use dry chemical, CO<sub>2</sub> or alcohol-resistant foam. Avoid water jet.

Fumes may contain metal oxides. Firefighters should wear SCBA.

### SECTION 6: Accidental release measures

Avoid dust formation. Use mechanical means to collect material. Ensure good ventilation.

### SECTION 7: Handling and storage

Ensure adequate ventilation. Avoid inhalation of fumes. Store in a dry place in sealed containers.

### SECTION 8: Exposure controls/personal protection

Exposure controls/personal protection

Engineering controls: Use local exhaust ventilation. Monitor fume levels.

Personal protection: Safety goggles, welding helmet, gloves (EN 388), flame-resistant clothing, and suitable RPE.

Exposure limits (EH40/UK WEL, 4th edition, 2020):

- Nickel (inhalable): 0.5 mg/m<sup>3</sup> TWA (Sk)
- Chromium: 0.5 mg/m<sup>3</sup> TWA
- Manganese (respirable): 0.05 mg/m<sup>3</sup> TWA

## SECTION 9: Physical and chemical properties

Form: Solid wire. Colour: Brown. Odour: None.

Melting point: ~1440°C. Solubility: Insoluble in water.

## SECTION 10: Stability and reactivity

Stable under normal use. Avoid strong acids and oxidisers.

No hazardous polymerisation expected.

## SECTION 11: Toxicological information

Nickel may cause allergic skin reactions. Prolonged inhalation may affect lungs.

Not expected to be acutely toxic. Fumes may irritate respiratory tract.

## SECTION 12: Ecological information

Not readily biodegradable. Avoid environmental release. Metal dust may be harmful to aquatic organisms.

## SECTION 13: Disposal considerations

Dispose of in accordance with local/national regulations. Do not incinerate. Collect metal waste for recycling where possible.

## SECTION 14: Transport information

Not classified as hazardous for transport. No special precautions required.

## SECTION 15: Regulatory information

Regulatory information

Regulations: Complies with REACH Regulation (EC) No. 1907/2006, as amended by (EU) 2020/878.

Prepared in anticipation of REACH Revision 2025 (Q4 expected implementation).

Complies with UK COSHH Regulations and CLP Regulation (EC) No. 1272/2008.

## SECTION 16: Other information

This SDS has been prepared in accordance with Regulation (EU) 2020/878. It is based on the best available knowledge as of issue date.

| Substance    | CAS No.   | EC No.    | Concentration | Classification (CLP) |
|--------------|-----------|-----------|---------------|----------------------|
| Tungsten     | 7440-33-7 | 231-143-9 | ~98%          | -                    |
| Cerium Oxide | 1306-38-3 | 215-150-4 | 1.8-2.2%      | -                    |