

1. Identification of the substance/preparation and of the company/undertaking

***Substance name:** Tungsten / Wolfram

***Application:** Electrodes for lighting- and welding technology, components for high temperature furnace construction, quartz glass production, ion implantation, thin film technology, medical applications

***Company:** SEKOM Handelsges.m.b.H.&Co.KG,
Office Park 1, Top B02, A-1300 Vienna, Austria

***Emergency phone:** +43-1-227-87127(only during office hours)

2. Hazards identification

***Classification:** No hazardous substance according to Directive 67/548/EC

3. Composition / Information on ingredients

***Composition:** Tungsten, CAS-no.: 7440-33-7 *Additions of < 2 weight % of oxides of La, oxides of Ce, Al-silicate and K-silicate

***Dangerous components:** None

4. First aid measures

*No exposure at intended use (solid metallic body)

5. Fire-fighting measures

***Suitable extinguishing agents:** Substance is not combustible, adapt extinguishing agent to surrounding area ***Special risks:** None ***Protective equipment:** None

6. Accidental release measures

***Person-related safety precautions:** No special requirements ***Environmental protection measures:** No special requirements

7. Handling and storage

***Handling:** Install exhaustion at hot forming workplaces to remove sublimate (see chapter 10) ***Storage:** No special requirements

8. Exposure controls / personal protection

***Exposure limit values:** Workplace: 5 mg W/m³, inhalable fraction, daily average
*Emission of suspended particles: General: 20 mg/m³ *Water emissions: 5 mg W/l
***Exposure at workplace:** Install exhaustion at workplaces with exposure to sublimated oxides (see chapter 10) and use protective mask P2 ***Environmental exposure:** No exposure at intended use

9. Physical and chemical properties

***Appearance:** Grey solid ***Melting point:** 3410 °C ***Density:** 19.3 g/cm³ at 20 °C
***Solubility:** Insoluble in water, acids and alkalis, soluble only in hydrofluoric acid or alkalis in combination with a strong oxidant

10. Stability and reactivity

***Conditions to be avoided:** High temperatures in air (Oxidation at temperatures > 400°C, sublimation of WO₃ starting at about 850°C) ***Materials to be avoided:** None

11. Toxicological information

*No toxic effects known

12. Ecological information

***Ecological toxicity:** No ecotoxic effects known ***Mobility:** Low mobility, based on the low solubility ***Persistence and biodegradability:** Stable inorganic material ***Bioaccumulation potential:** No data available

13. Disposal considerations

*Dispose residues as metal scrap *Notice national and regional regulations

14. Transport information

*No dangerous goods according to the international transport regulations

15. Regulatory information

*No labelling required *The exposure limits stated under item 8 refer to the Austrian legal provisions *Notice national regulations

16. Other information

*This information is based on our present knowledge *Registration according to art. 6 Regulation (EC) no. 1907/2006 (REACH) is being prepared, new knowledge will immediately be incorporated.