

# Safety Data Sheet

pursuant to Regulation (EC) 1907/2006 (REACH)  
REACH reg. no. --

Trade name: **Tungsten**  
SDS no. SD-W-02



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<b>1. Identification of the substance and of the company</b>	<b>* Identification of the substance:</b> W,WL10,WL15,WC20,WVM, WVMW <b>* Use of the substance:</b> products such as for lighting- and welding technology, components for high temperature furnace construction, quartz glass production, ion implantation, thin film technology, medical applications <b>*Company:</b> PLANSEE SE, A-6600 Reutte, e-mail: <a href="mailto:info@plansee.com">info@plansee.com</a> <b>*Emergency number:</b> phone +43 (5672)600-0
<b>2. Hazards Identification</b>	<b>*Classification:</b> not hazardous material pursuant to Regulation (EC) no. 1272/2008 EC or EC Directive 67/548/EEC <b>*Compact Metal / Alloy with no Risk to Human Health or the Environment.</b>
<b>3. Composition/Information on ingredients</b>	<b>*Summary:</b> tungsten, addition of oxides of La and Ce, Al- and K-silicate, < 2 % mass fraction EC no. 231-143-9 CAS no. 7440-33-7 <b>*Hazardous components:</b> none
<b>4. First-aid measures</b>	<b>*Inhalation:</b> no exposure when used as directed. <b>*Skin contact:</b> wash dust off thoroughly with soap and water. <b>* Doctor is needed or advisable:</b> consult a physician after prolonged exposure to dust.
<b>5. Fire-fighting measures</b>	<b>*Suitable extinguishing media:</b> The product itself is not flammable. *Adapt extinguishing measures to surroundings. <b>*Special hazard:</b> increased fire hazard during dust formation. <b>*Protective equipment:</b> breathing protection in the presence of dust.
<b>6. Accidental release measures</b>	<b>*Personnel-related precautionary measures:</b> dust should be suction cleaned directly at source. <b>*Environmental protection measures:</b> no particular environmental protection measures are required.
<b>7. Handling and storage</b>	<b>*Handling:</b> Avoid dust formation. Use suction cleaning if unavoidable and when processing at high temperatures (sublimate formation, see item 10). <b>*Storage:</b> no special measures required.
<b>8. Exposure controls/personal protection</b>	<b>*Exposure thresholds:</b> workplace: 5 mg/m <sup>3</sup> inhalable fraction, mean daily value *Dust-like emissions: General 5 mg/m <sup>3</sup> *Wastewater emissions: 5 mg/l <b>*Workplace exposure:</b> install suction cleaning when working with dust and sublimate and use at least one FFP2 respirator. <b>*Environmental exposure:</b> install suction cleaning with filter when working with dust formation. *Do not empty into drains.
<b>9. Physical and chemical properties</b>	<b>*Appearance:</b> solid grey material <b>*Melting point:</b> 3410 °C <b>*Density:</b> 19,3 g/cm <sup>3</sup> at 20°C <b>*Solubility:</b> insoluble in water, acids and bases; soluble only in hydrofluoric acid or a base in combination with a strong oxidizing agent.
<b>10. Stability and reactivity</b>	<b>*Conditions to be avoided:</b> high temperatures in air (strong oxidation beginning around 400°C, sublimation of WO <sub>3</sub> beginning around 850°C). <b>*Substances to be avoided:</b> none
<b>11. Toxicological information</b>	*No known toxic effects.
<b>12. Ecological information</b>	<b>*Ecotoxicity:</b> No known ecotoxic effects. <b>*Mobility:</b> low mobility due to low solubility. <b>*Persistence and degradability:</b> stable inorganic material. <b>*Bioaccumulation potential:</b> no evidence of bioaccumulation potential.
<b>13. Disposal considerations</b>	*Dispose of residues as metal waste. *Obey national or regional regulations.
<b>14. Transport information</b>	<b>*ADR / RID / ADN / IATA (ICAO) / IMDG:</b> not a dangerous good pursuant to international transport regulations.
<b>15. Regulatory information</b>	*No labeling required. *The exposure thresholds given under item 8 pertain to Austrian legal regulations. *Obey national regulations.
<b>16. Other information</b>	*Above information corresponds to our current state of knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. *Detailed results of the toxicological and ecotoxicological effects are described in the chemical safety report for REACH registration