

1. Identification of the substance/preparation and of the company/undertaking	<p>*Substance name: Mo, TZM, MHC, ML, MLR, MLS, MY *Application: Products for the lighting industry, coating technology, medical applications, electronics industry, furnace construction, glass production *Company: PLANSEE Metall GmbH, A-6600 Reutte, Tel.: +43 (5672) 600-0 *e-mail: georg.thurner@plansee.com *Emergency phone: +43 5672 600-2226 (only during office hours)</p>
2. Hazards identification	<p>*Classification: No hazardous substance according to Directive 67/548/EEC</p>
3. Composition / Information on ingredients	<p>*Composition: Molybdenum, CAS-no.: 7439-98-7 oxides of Ti, Zr, La, Y as alloying additions < 1 weight % *Dangerous components: None</p>
4. First aid measures	<p>*Inhalation: Supply fresh air, after prolonged exposure call for doctor *Skin contact: Remove dust by washing with water and soap</p>
5. Fire-fighting measures	<p>*Suitable extinguishing agents: Substance is not combustible, adapt extinguishing agent to surrounding area *Special risks: None *Protective equipment: None</p>
6. Accidental release measures	<p>*Person-related safety precautions: No special requirements *Environmental protection measures: No special requirements</p>
7. Handling and storage	<p>*Handling: Avoid formation of airborne dust and install exhaustion if not avoidable or at hot forming workplaces (formation of sublimate see chapter 10) *Storage: No special requirements</p>
8. Exposure controls / personal protection	<p>*Exposure limit values: Workplace: 10 mg/m³, inhalable fraction, daily average *Emission of suspended particles: General: 20 mg/m³ *Water emissions: 5 mg/l *Exposure at workplace: Install exhaustion at workplaces with exposure to dust and sublimated oxides and use protective mask P2 *Environmental exposure: Equip exhaustion with filter system</p>
9. Physical and chemical properties	<p>*Appearance: Grey solid *Melting point: 2610 °C *Density: 10.2 g/cm³ at 20 °C *Solubility: Insoluble in water, acids and alkalis, soluble only in complex forming acids (sulphuric or phosphoric acid) or alkalis in combination with a strong oxidant</p>
10. Stability and reactivity	<p>*Conditions to be avoided: High temperatures in air (strong oxidation at temperatures > 600 °C, sublimation of MoO₃ starting at about 700 °C) *Materials to be avoided: None</p>
11. Toxicological information	<p>*No toxic effects known</p>
12. Ecological information	<p>*Ecological toxicity: "Molybdenosis" (copper deficiency disease, caused by Mo at ruminates) *No other ecotoxicological effects known *Mobility: Low mobility, based on the low solubility *Persistence and biodegradability: Stable inorganic material *Bioaccumulation potential: No data available</p>
13. Disposal considerations	<p>*Dispose residues as metal scrap *Notice national and regional regulations</p>
14. Transport information	<p>*ADR / RID / IATA: No dangerous goods according to the international transport regulations</p>
15. Regulatory information	<p>*No labelling required *The exposure limits stated under item 8 refer to the Austrian legal provisions *Notice national regulations</p>
16. Other information	<p>*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.</p>