1. Identification of the substance and of the company
*Identification of the substance: Mo, TZM, MHC, ML, MLR, MLS, MY *Use of the substance: products such as for lighting technology, coating technology, medical technology, electronics, klin engineering, glass manufacturing
*Company: PLANSEE SE, A-6600 Reutte, e-mail: environment.management@plansee.com
*Emergency number: phone +43 (5672)600-0

2. Hazards Identification
*Classification: not hazardous material pursuant to regulation (EC) no. 1272/2008 EC or EC Directive 67/548/EEC *Compact Metal / Alloy with no Risk to Human Health or the Environment.

3. Composition/Information on ingredients
*Summary: molybdenum, addition of Ti, Zr, La, Y oxides <1 % mass fraction
EC no. 231-107-2
CAS no. 7439-98-7
*Hazardous components: none

4. First-aid measures
*Inhalation: no exposure when used as directed. *Skin contact: wash dust off thoroughly with soap and water. *Doctor is needed or advisable: consult a physician after prolonged exposure to dust.

5. Fire-fighting measures
*Suitable extinguishing media: The product itself is not flammable. *Adapt extinguishing measures to surroundings. *Special hazard: none *Protective equipment: none

6. Accidental release measures
*Personnel-related precautionary measures: dust should be suction cleaned directly at source. *Environmental protection measures: avoid contamination of agricultural soils (see item 12).

7. Handling and storage
*Handling: Avoid dust formation. Use suction cleaning if unavoidable and when processing at high temperatures (sublimate formation, see item 10). *Storage: no special measures required.

8. Exposure controls/personal protection
*Exposure thresholds: workplace: 10 mg/m³ inhalable fraction, mean daily value *Dust-like emissions: General 5 mg/m³ *Wastewater emissions: 5 mg/l *Workplace exposure: install suction cleaning when working with dust and sublimate and use at least one FFP2 respirator. *Environmental exposure: install suction cleaning with filter when working with dust formation. *Do not empty into drains.

9. Physical and chemical properties
*Appearance: solid grey material *Melting point: 2610°C *Density: 10.2 g/cm³ at 20°C *Solubility: insoluble in water, acids and bases; soluble only in complex-forming acids (sulphuric or phosphoric) or bases in combination with a strong oxidizing agent.

10. Stability and reactivity
*Conditions to be avoided: high temperatures in air (strong oxidation beginning around 600 °C, sublimation of MoO₃ beginning around 700 °C). *Substances to be avoided: none

11. Toxicological information
*No known toxic effects.

12. Ecological information

13. Disposal considerations
*Dispose of residues as metal waste. *Obey national or regional regulations.

14. Transport information
*ADR / RID / ADN / IATA (ICAO) / IMDG: Not a dangerous good pursuant to international transport regulations.

15. Regulatory information
*No labeling required. *The exposure thresholds given under item 8 pertain to Austrian legal regulations. *Obey national regulations.

16. Other information
*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 toxicological and ecotoxicological effects are described in the chemical safety report for REACH registration.