

**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, kiln engineering, glass manufacturing **\*Company:** Heeger Materials Inc, 230 Steele St Denver, CO 80206, United States, e-mail: [sales@heegermaterials.com](mailto:sales@heegermaterials.com)

**2. Hazards Identification**

**\*Emergency number:** phone 925-385-8104

**\*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/m<sup>3</sup> inhalable fraction, mean daily value **\*Dust-like emissions:** General 5 mg/m<sup>3</sup> **\*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/cm<sup>3</sup> 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 MoO<sub>3</sub> beginning around 700 °C).

**\*Substances to be avoided:** none

**11. Toxicological information**

\*No known toxic effects.

**12. Ecological information**

**\*Ecotoxicity:** "molybdenosis (copper deficiency disease caused by Mo in ruminants) **\*No other ecotoxicological effects.** **\*Mobility:** low mobility due to low solubility. **\*Persistence and degradability:** stable inorganic material. **\*Bioaccumulation potential:** no evidence of bioaccumulation potential.

**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.

Information about the content

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