1. Identification of the substance and of the company

* Identification of the substance: Elmet, Sparkal
* Use of the substance: products such as for arcing contacts, heat sinks, electrodes
* Company: CIME BOCUZE, 446, avenue des Digues, BP 301, St. Pierre en Faucigny, F-74807 La Roche sur Foron Cedex, PLANSEE Powertech AG, Retterswil 13, CH-5703 Seon, PLANSEE Composite Materials GmbH, Siebenbürgenstr.23, D-86983 Lechbruck, e-mail: environment.management@plansee.com
* Emergency number: phone +33 (4) 5025 37 00, +41 62 769 60 80, +49 (8862)773-0

2. Hazards Identification

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

3. Composition/Information on ingredients

*Summary: tungsten, copper 10-40 % mass fraction
EC no. tungsten: 231-143-9, copper: 231-159-6
CAS no. tungsten: 7440-33-7, copper: 7440-50-8
*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: increased fire hazard during dust formation.
*Protective equipment: breathing protection in the presence of dust.

6. Accidental release measures

*Personnel-related precautionary measures: dust should be suction cleaned directly at source. *Environmental protection measures: no particular environmental protection measures are required.

7. Handling and storage

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

8. Exposure controls/personal protection

*Exposure thresholds: workplace: tungsten 5 mg/m³ inhalable fraction, mean daily value, copper 1 mg/m³. *Dust-like emissions: General 5 mg/m³, copper 2 mg/m³ *Wastewater emissions: tungsten 5 mg/l, copper 0.5 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: tungsten 3410°C, copper 1083°C *Density: 13 to 18.3 g/cm³ at 20°C *Solubility: insoluble in water, acids and bases; soluble only in hydrofluoric acid or a base in combination with a strong oxidizing agent.

10. Stability and reactivity

*Conditions to be avoided: high temperatures in air (strong oxidation beginning around 400 °C, sublimation of WO3 beginning around 850 °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 the toxicological and ecotoxicological effects are described in the chemical safety report for REACH registration.