1. Identification of the substance and of the company

*Identification of the substance: Nb, Nb1Zr*  
*Use of the substance: products such as for e.g. chemical apparatus engineering*  
*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: niobium, Nb1Zr additional 1 % mass fraction zirconium*  
EC no. niobium: 231-113-5  
niobium: 7440-03-1, zirconium: 7440-67-7  
*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: 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 with filter if unavoidable.  
*Storage: no special measures required.*

8. Exposure controls/personal protection

*Exposure thresholds: workplace: 5 mg/m³ inhalable fraction, mean daily value  
*Dust-like emissions: General 5 mg/m³  
*Wastewater emissions: none*  
*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: 2468°C*  
*Density: 8,4 g/cm³ at 20°C*  
*Solubility: insoluble in water.*

10. Stability and reactivity

*Conditions to be avoided: none*  
*Substances to be avoided: none*

11. Toxicological information

*No known toxic effects.*

12. Ecological information

*Ecotoxicity: No known ecotoxic effects.  
*Mobility: low mobility due to low solubility.  
*Persistence and degradability: stable inorganic material.  
*Bioaccumulation potential: no data available.*

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.*