1. Identification of the substance and of the company

*Identification of the substance: Chromium-Iron Alloys CFY / ITM
*Use of the substance: products such as for solid oxide fuel cells
*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: CFY: chromium 94 % mass fraction, iron 5 % mass fraction, <1 % mass fraction non-hazardous metals and oxides / ITM: iron 71 % mass fraction, chromium 26 % mass fraction, <1 % mass fraction non-hazardous metals and oxides
*EC no. chromium: 231-157-5, iron: 231-096-4
*CAS no. chromium: 7440-47-3, iron: 7439-89-6
*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: dry storage.

8. Exposure controls/personal protection

*Exposure thresholds: workplace: chromium 2 mg/m³, iron 1 mg/l inhalable fraction, mean daily value
*Dust-like emissions: chromium 2 mg/m³
*Wastewater emissions: chromium 0,5 mg/l, iron 2 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: > 1500°C
*Density: 7.2 to 7.7 g/cm³ at 20°C
*Solubility: insoluble in water, acids and bases.

10. Stability and reactivity

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

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.