

## SAFETY DATA SHEET (SDS)

### Stainless Steel Grade 316 – For Use in Medical Device Side Rails and Tray Attachments

---

#### 1. Identification

**Product Name:** Stainless Steel Grade 316 (Finished Medical Device Component)

**Product Use:**

Component material used in the manufacture of:

- Medical device mounting side rails
- Table-top tray attachments (e.g. defibrillator trays)
- Associated accessory interface systems for hospital beds

**Intended Environment:**

Healthcare and clinical environments

---

#### 2. Hazard Identification

**Classification:**

Not classified as hazardous under GHS when supplied as a finished solid article.

**Hazard Statement:**

- No hazard in normal clinical use
- No exposure expected to users or patients under intended conditions

**Processing Hazards (manufacturing only):**

- Dust, fumes, or particulates generated during cutting, grinding, welding or polishing may be hazardous
- 

#### 3. Composition / Information on Ingredients

Component	Approx %
Iron (Fe)	Balance
Chromium (Cr)	16–18%
Nickel (Ni)	10–14%
Molybdenum (Mo)	2–3%
Manganese (Mn)	≤2%
Silicon (Si)	≤1%
Carbon (C)	≤0.08%

**Note:**

Material is supplied as a **solid, corrosion-resistant alloy** compliant with stainless steel 316 specifications.

---

**4. First Aid Measures****Clinical Use:**

No first aid measures required under normal use.

**Manufacturing Exposure:**

- Inhalation: Move to fresh air
  - Skin: Wash with soap and water
  - Eyes: Flush with water for 15 minutes
- 

**5. Fire Fighting Measures**

**Flammability:** Non-flammable

**Hazardous Combustion Products:** Metal oxides (chromium, nickel) at extreme temperatures

---

**6. Accidental Release Measures**

Not applicable for finished devices.

For machining residues:

- Avoid inhalation of dust
  - Use controlled clean-up methods (vacuum/wet collection)
- 

**7. Handling and Storage****Finished Devices:**

- No special handling requirements
- Designed for safe handling by healthcare professionals

**Storage:**

- Store clean and dry
  - Avoid contamination with corrosive substances (e.g. chlorides)
- 

**8. Exposure Controls / Personal Protection**

**End Users (clinical staff / patients):**

- No PPE required related to material composition

**Manufacturing Personnel:**

- Local exhaust ventilation
  - Safety glasses
  - Gloves
  - Respiratory protection where dust/fume generated
- 

**9. Physical and Chemical Properties**

**Appearance:** Solid, metallic, polished or brushed finish

**Odour:** Odourless

**Corrosion Resistance:** High (suitable for healthcare cleaning environments)

**Density:** ~8.0 g/cm<sup>3</sup>

---

**10. Stability and Reactivity**

**Stability:** Stable under normal use and cleaning conditions

**Conditions to Avoid:**

- Prolonged exposure to high chloride concentrations
  - Improper cleaning agents causing surface degradation
- 

**11. Toxicological Information****Clinical Use:**

- No toxicological risk expected
- Material is widely used in medical devices due to corrosion resistance and stability

**Note:**

This SDS does not replace biological safety evaluation where patient contact occurs.

---

**12. Ecological Information**

- No significant environmental impact in solid form
  - Recyclable material
- 

**13. Disposal Considerations**

- Dispose in accordance with local regulations

- Recycle as stainless steel where possible
- 

#### **14. Transport Information**

- Not classified as dangerous goods
- 

#### **15. Regulatory Information**

- Not hazardous under GHS (finished article)
  - Suitable for use in medical device components when properly manufactured and maintained
- 

#### **16. Device-Specific Notes**

This material is incorporated into finished medical devices including:

- Side rail mounting systems
- Tray attachments for clinical use

Under intended use:

- The material is **not released, inhaled, or absorbed**
  - There is **no direct chemical exposure to patients or users**
-