

## Safety Data Sheet

### Section 1 – Identification

**Product Identifiers:**

308LT1-1/4, 309LTO-1/4, 309LT1-1/4, 316LTO-1/4, 308LTO-3, 309LMoTo-1, 309LTO-3, 309LTO-1, 316LTO-3, 316LTO-1, 317LT1-1/4, 347LT-1/4, 347To-1

**Recommended Use:** Welding filler metals for arc welding processes

**Restrictions on Use:** For industrial and professional welding use only

**Manufacturer:**

Inweld Corporation  
3962 Portland St  
Coplay, PA 18037  
UNITED STATES

**Inweld Phone Number:** (800) 346-5368

**Emergency Phone Number (CHEMTREC):** (800) 424-9300

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### Section 2 – Hazard(s) Identification

**Classification (OSHA HCS / GHS):**

- Carcinogenicity – Category 1A
- Specific Target Organ Toxicity (Repeated Exposure) – Category 1
- Acute Toxicity (Inhalation) – Category 4

**Signal Word:** DANGER

**Hazard Statements:**

- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- Harmful if inhaled.
- Welding fumes and gases may be hazardous to health.

**GHS Hazard Pictograms:**



**Precautionary Statements:**

- Do not breathe welding fumes or dust.
  - Use only with adequate ventilation or local exhaust.
  - Wear appropriate respiratory, eye, and skin protection.
  - Obtain special instructions before use.
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**Section 3 – Composition / Information on Ingredients**

**Solid stainless steel welding consumables. Hazardous exposure occurs primarily from welding fumes.**

**308LT1-1/4 / 308LT0-3**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	19–21
Nickel (Ni)	9–11
Manganese (Mn)	0.5–2.5
Silicon (Si)	≤1.0
Carbon (C)	≤0.03

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**309LT1-1/4 / 309LTO-1/4 / 309LT0-3 / 309LT0-1**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	22–24
Nickel (Ni)	12–14
Manganese (Mn)	0.5–2.5

<b>Component</b>	<b>Approx. %</b>
Silicon (Si)	≤1.0
Carbon (C)	≤0.03

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### **309LMoTo-1**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	22–24
Nickel (Ni)	12–14
Molybdenum (Mo)	2–3
Manganese (Mn)	0.5–2.5
Carbon (C)	≤0.03

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### **316LTO-1/4 / 316LT0-3 / 316LTo-1**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	16–18
Nickel (Ni)	10–14
Molybdenum (Mo)	2–3
Manganese (Mn)	0.5–2.5
Carbon (C)	≤0.03

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### **317LT1-1/4**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	18–20
Nickel (Ni)	11–15
Molybdenum (Mo)	3–4
Manganese (Mn)	0.5–2.5

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#### **347LT-1/4 / 347To-1**

<b>Component</b>	<b>Approx. %</b>
Iron (Fe)	Balance
Chromium (Cr)	17–20
Nickel (Ni)	9–13
Columbium/Niobium (Nb)	0.3–1.0
Manganese (Mn)	0.5–2.5

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### **Section 4 – First-Aid Measures**

**Inhalation:** Remove to fresh air. Seek medical attention if symptoms persist.

**Eye Contact:** Flush with water for at least 15 minutes.

**Skin Contact:** Wash with soap and water.

**Ingestion:** Not a normal route of exposure. Seek medical advice if swallowed.

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### **Section 5 – Fire-Fighting Measures**

**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, foam

**Specific Hazards:** Welding consumables are not flammable, but fumes may contain toxic metal oxides.

**Protective Equipment:** Self-contained breathing apparatus.

## Section 6 – Accidental Release Measures

Solid product—no special cleanup required. Avoid dust generation from grinding or cutting.

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## Section 7 – Handling and Storage

Handle with adequate ventilation. Store in a dry location away from incompatible materials.

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## Section 8 – Exposure Controls / Personal Protection

**Engineering Controls:** Local exhaust ventilation

**PPE:** Welding helmet, gloves, protective clothing, and approved respirator if needed

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## Section 9 – Physical and Chemical Properties

- Appearance: Metallic wire
  - Odor: None
  - Melting Point: ~1400–1450°C
  - Solubility: Insoluble in water
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## Section 10 – Stability and Reactivity

Stable under normal conditions. No hazardous polymerization.

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## Section 11 – Toxicological Information

Welding fumes may contain **hexavalent chromium, nickel compounds, and manganese**, which are associated with cancer and organ damage from prolonged exposure.

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## Section 12 – Ecological Information

Not expected to be environmentally hazardous in solid form.

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### **Section 13 – Disposal Considerations**

Dispose in accordance with local, state, and federal regulations.

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### **Section 14 – Transport Information**

Not regulated as hazardous for transport.

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### **Section 15 – Regulatory Information**

This product is classified according to OSHA HCS (29 CFR 1910.1200).

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### **Section 16 – Other Information**

Prepared for Inweld Corporation

This SDS is intended as a guideline and does not replace workplace exposure assessments.