

Safety Data Sheet

Section 1: Identification

Product Identifier:

35 Coated Aluminum Electrode

Other means of identification:

SMAW Filler Metal, Covered Electrode for Welding

Recommended Use:

Shielded Metal Arc Welding (SMAW) of aluminum

Manufacturer Information:

Inweld Corporation

3962 Portland St

Coplay, PA 18037

UNITED STATES

Phone Number: (800) 346-5368

Emergency Phone (24-Hour): CHEMTREC – (800) 424-9300

Section 2: Hazard(s) Identification

Classification:

- **Acute toxicity (inhalation, dust/fumes):** Category 4
- **Skin irritation:** Category 2
- **Eye irritation:** Category 2B
- **Specific target organ toxicity – single exposure (respiratory tract irritation):** Category 3
- **Carcinogenicity (metal fume):** Category 2
- **Reproductive toxicity (lead, if present in coating):** Category 2

Signal Word:

DANGER

Hazard Statements:

- H332: Harmful if inhaled
- H315: Causes skin irritation
- H320: Causes eye irritation
- H335: May cause respiratory irritation
- H351: Suspected of causing cancer
- H361: Suspected of damaging fertility or the unborn child

Precautionary Statements:

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P271: Use only outdoors or in a well-ventilated area
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P302 + P352: IF ON SKIN: Wash with plenty of water
- P308 + P313: IF exposed or concerned: Get medical advice/attention
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

GHS Pictograms:

Section 3: Composition/Information on Ingredients

Component	CAS Number	% by Weight	Notes
Aluminum (metal core)	7429-90-5	60–85%	

Component	CAS Number	% by Weight	Notes
Coating components (flux, binders, stabilizers, possible fluorides, silicates, etc.)	Mixture	15–40%	Proprietary mixture; may contain small amounts of lead or other heavy metals depending on formulation

Section 4: First-Aid Measures

Inhalation:

Remove to fresh air. Get medical attention if symptoms persist or worsen.

Skin Contact:

Wash affected area with soap and water. Remove contaminated clothing.

Eye Contact:

Flush eyes with water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:

Not a normal route of exposure. If ingested, do not induce vomiting. Seek immediate medical attention.

Most important symptoms/effects (acute and delayed):

Irritation of skin, eyes, respiratory tract; possible metal fume fever.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:

Dry chemical, CO₂, foam. Use methods appropriate for surrounding fire.

Special hazards:

Welding arc and sparks can ignite combustibles. Fumes may contain toxic metals.

Firefighter protection:

Wear self-contained breathing apparatus (SCBA) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions:

Ensure adequate ventilation. Use PPE to avoid contact with dust or residue.

Cleanup methods:

Sweep or vacuum up dust using non-sparking tools. Avoid generating airborne dust.

Section 7: Handling and Storage

Handling:

Use only in well-ventilated areas. Avoid breathing fumes or dust. Use appropriate PPE.

Storage:

Store in dry, cool place away from incompatible materials and moisture.

Section 8: Exposure Controls/Personal Protection

Substance	OSHA PEL	ACGIH TLV
Aluminum	15 mg/m ³ (total dust), 5 mg/m ³ (resp. fraction)	1 mg/m ³ (resp. fraction)
Welding fumes (as particulates not otherwise classified)	5 mg/m ³ (resp. fraction)	5 mg/m ³

Engineering Controls:

Use local exhaust ventilation to maintain airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

- Eye/Face: Safety goggles or welding shield
- Skin: Flame-resistant gloves and clothing
- Respiratory: Use NIOSH-approved respirator when ventilation is inadequate

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Grey coated rods

Property	Value
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Odor	Odorless
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Melting Point ~660°C (aluminum core)

Boiling Point Not applicable

Solubility Insoluble in water

Flash Point Not applicable

Flammability Non-flammable (as sold)

Section 10: Stability and Reactivity

Reactivity:

Stable under normal conditions.

Chemical Stability:

Stable.

Incompatible Materials:

Strong acids, bases, oxidizers. Aluminum reacts with water when finely divided.

Hazardous Decomposition Products:

Metal fumes, aluminum oxide, fluorides, and possibly other toxic compounds.

Section 11: Toxicological Information

Routes of exposure:

Inhalation, skin, eye

Acute effects:

Respiratory irritation, eye and skin irritation

Chronic effects:

Prolonged exposure to welding fumes may cause lung damage, metal fume fever, and other systemic effects.

Carcinogenicity:

Some welding fumes are classified by IARC as possibly carcinogenic to humans (Group 2B).

Section 12: Ecological Information

Ecotoxicity:

No data available for the product as a whole. Components may be harmful to aquatic life.

Persistence and degradability:

Not readily biodegradable

Bioaccumulative potential:

Not expected to bioaccumulate

Section 13: Disposal Considerations

Dispose of in accordance with federal, state, and local environmental control regulations. Waste may contain hazardous components.

Section 14: Transport Information

DOT: Not regulated as a hazardous material under U.S. DOT regulations

IMDG/IATA: Not regulated

Section 15: Regulatory Information

OSHA Hazards:

Respiratory irritant, possible carcinogen

TSCA:

All ingredients listed or exempt

SARA 313:

This product may contain components subject to reporting (e.g., aluminum, lead if present)

Section 16: Other Information



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Prepared by: Inweld Corporation – Safety Compliance Dept.

Disclaimer:

The information provided in this SDS is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Inweld Corporation shall not be held liable for any damage resulting from handling or contact with this product.