

Safety Data Sheet

Section 1: Identification

Product Identifier: Argon

Other Means of Identification: Argon gas, compressed argon

Recommended Use: Shielding gas for welding and industrial applications

Restrictions on Use: None known

Manufacturer:

Inweld Corporation

3962 Portland St

Coplay, PA 18037

United States

Telephone: (800) 346-5368

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

Section 2: Hazard(s) Identification

Classification according to OSHA HCS (29 CFR 1910.1200):

- Gases under pressure – Compressed gas (Category 1)
- Simple asphyxiant

Signal Word: DANGER

Hazard Statements:

- Contains gas under pressure; may explode if heated.
- May displace oxygen and cause rapid suffocation.

Precautionary Statements:

- **Prevention:** Use and store only outdoors or in a well-ventilated place.
- **Response:** In case of inadequate ventilation, wear respiratory protection.
- **Storage:** Protect from sunlight. Store in a well-ventilated place.

- **Disposal:** Dispose of contents/container in accordance with local regulations.

GHS Pictograms:



Other Hazards:

- Asphyxiant in high concentrations. Symptoms may include dizziness, unconsciousness, and death.
- Exposure to rapidly expanding gas may cause frostbite.

Section 3: Composition/Information on Ingredients

Component CAS Number Concentration

Argon	7440-37-1	100%
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Section 4: First-Aid Measures

Inhalation:

Move victim to fresh air. If breathing has stopped, administer artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact:

Frostbite: Immediately warm affected area with lukewarm water. Do not rub affected area. Seek medical attention.

Eye Contact:

Frostbite: Rinse with lukewarm water. Do not rub eyes. Obtain medical attention immediately.

Ingestion:

Not applicable—gas at room temperature.

Most Important Symptoms/Effects, Acute and Delayed:

Asphyxiation symptoms include dizziness, headache, shortness of breath, loss of consciousness.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Argon is nonflammable. Use extinguishing media appropriate for surrounding fire.

Specific Hazards Arising from the Chemical:

Cylinders may rupture violently in the heat of fire.

Protective Equipment and Precautions for Firefighters:

Wear self-contained breathing apparatus and full protective gear. Cool cylinders with water spray.

Section 6: Accidental Release Measures

Personal Precautions:

Evacuate area. Ensure adequate ventilation. Use self-contained breathing apparatus if entering area with poor ventilation.

Environmental Precautions:

Argon does not pose environmental hazards.

Methods for Containment/Cleanup:

Ventilate area. Stop leak if safe to do so.

Section 7: Handling and Storage

Handling:

- Use only in well-ventilated areas.
- Do not drag, drop, or handle cylinders roughly.
- Never insert objects into valve outlets.

Storage:

- Store cylinders upright, secured, in a cool, dry, well-ventilated area.
- Protect cylinders from physical damage and sunlight.
- Keep away from heat sources.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

- **OSHA PEL:** None established (simple asphyxiant)
- **ACGIH TLV:** Simple asphyxiant

Engineering Controls:

Provide adequate general and local ventilation.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use approved air-supplied respirator in confined or poorly ventilated areas.
- **Eye/Face Protection:** Safety glasses recommended.
- **Skin Protection:** Protective gloves for handling cold cylinders or in case of frostbite hazard.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Colorless, odorless gas
Odor	None
Odor Threshold	Not applicable
pH	Not applicable
Melting Point	-189.3°C (-308.7°F)
Boiling Point	-185.8°C (-302.4°F)
Flash Point	Nonflammable
Vapor Pressure	Not applicable
Vapor Density (air = 1)	1.38
Specific Gravity (liquid)	1.40 @ -186°C

Property	Value
Solubility in Water	Slight
Evaporation Rate	Not applicable
Auto-ignition Temperature	Not applicable

Section 10: Stability and Reactivity

Reactivity: Inert gas.

Chemical Stability: Stable under normal conditions.

Incompatible Materials: None known.

Hazardous Decomposition Products: None.

Conditions to Avoid: Heat, flames, and sparks near pressurized cylinders.

Section 11: Toxicological Information

Routes of Exposure: Inhalation.

Acute Effects: Asphyxiation in high concentrations.

Chronic Effects: None known.

Carcinogenicity: Not classified as a carcinogen by IARC, NTP, or OSHA.

Section 12: Ecological Information

Argon is not expected to have adverse effects on the environment. It is a naturally occurring atmospheric gas.

Section 13: Disposal Considerations

Return cylinder to supplier. Do not discharge into areas where accumulation could be dangerous.

Section 14: Transport Information

UN Number UN1006

Proper Shipping Name Argon, compressed

Transport Hazard Class 2.2

Packing Group Not applicable

Label(s) Required Non-flammable gas

ERG Number 121

Section 15: Regulatory Information

U.S. Federal Regulations:

- OSHA: Simple asphyxiant under 29 CFR 1910.1200.
- TSCA: Listed.
- CERCLA: Not listed.
- SARA 302/304: No extremely hazardous substances.
- SARA 311/312: Sudden release of pressure hazard.

Section 16: Other Information

Prepared by: Inweld Corporation

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Phone: (800) 346-5368

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