



# Material Safety Data Sheet

## 1. Product and Company Identification

Product name : **Argon, Compressed**  
Chemical formula : AR  
Synonyms : Argon, AR  
Company : SpecAir Specialty Gases  
22 Albiston Way  
Auburn, Maine 04210 USA  
Telephone : 207-777-6218  
Emergency : 800-535-5053

## 2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Argon, Compressed	7440-37-1	100%

## 3. Hazards Identification

### Emergency Overview

Containers may rupture or explode if exposed to heat.  
May cause difficulty breathing.

### Potential Health Effects

Inhalation : Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma.  
Eye contact : No information on significant adverse effects.  
Skin contact : No information on significant adverse effects.  
Ingestion : Ingestion of gas is unlikely.  
Chronic Health Hazard : Not applicable.

## 4. First Aid Measures

General advice : None.  
Eye contact : Flush eyes with plenty of water.  
Skin contact : Wash exposed skin with soap and water.  
Ingestion : If a large amount is swallowed, get medical attention.  
Inhalation : If adverse effects occur, remove to contaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

## 5. Fire-Fighting Measures

Suitable extinguishing media : Carbon dioxide, regular dry chemical.  
Large fires: Use regular foam or flood with fine water spray.

- Specific hazards : Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.
- Fire fighting : Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile).

## 6. Accidental Release Measures

- Personal precautions : None.
- Environmental precautions : None.
- Methods for cleaning up : Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.
- Additional advice : None.

## 7. Handling and Storage

### Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

### Storage

Store in accordance with all current regulations and standards. Subject to storage regulation: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

## 8. Exposure Controls / Personal Protection

### Engineering measures

Not available.

### Personal protective equipment

- Respiratory protection : Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.  
For unknown concentrations or immediately dangerous to life or health – Any supplied-air respirator with full facepiece and operated in pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
- Hand protection : Wear appropriate chemical resistant gloves.
- Eye protection : Eye protection not required, but recommended.
- Skin and body protection : Protective clothing is not required.
- Special instructions for protection and hygiene : None.
- Remarks : None.

## 9. Physical and Chemical Properties

- Form : Gas.
- Color : Colorless.
- Odor : Odorless.
- Molecular weight : 39.948
- Vapor pressure : 500 mmHg @ -190 C

Vapor density : 1.380 (air = 1)  
Specific gravity : Not applicable.  
Boiling point : -303 F (-186 C)  
Freezing point : -308 F (-189 C)  
Water solubility : 3.36% @ 20 C  
Solvent solubility : Soluble: organic solvents.

## 10. Stability and Reactivity

Stability : Stable under normal conditions.  
Conditions to avoid : Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.  
Materials to avoid : Not available.  
Hazardous decomposition products : Not available.

## 11. Toxicological Information

### Acute Health Hazard

Ingestion : Not available.  
Inhalation : Not available.  
Skin : Not available.

## 12. Ecological Information

Not available.

## 13. Disposal Considerations

Waste from residues / unused products : Dispose in accordance with all applicable regulations.  
Contaminated packaging : Return cylinder to supplier.

## 14. Transport Information

### DOT (US only)

Proper shipping name : Argon, compressed  
Class : 2.2  
UN/ID No. : UN1006  
Labeling : Non-flammable Gas

### Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

## 15. Regulatory Information

### OSHA Process Safety (29 CFR 1910.119) Hazard Class(es)

Not regulated.

### TSCA

Material is listed in TSCA inventory.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355.30)

Not regulated.

SARA Title III Section 304 Extremely Hazardous Substances (40 CFR 355.40)

Not regulated.

SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21)

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: Yes

SARA Title III Section 313 (40 CFR 372.65)

Not regulated.