



Material Safety Data Sheet

1. Product and Company Identification

Product name : **Argon, Liquid**

Chemical formula : Ar

Synonyms : Argon, Refrigerated Liquid; Argon, Cryogenic Liquide; Argon; Liquid Argon; UN 1951

Company : Specialty Gases of America, Inc
6055 Brent Dr.
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Argon	7440-37-1	99+%

3. Hazards Identification

Emergency Overview

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

Potential Health Effects

Inhalation : Nausea, vomiting, dizziness, tingling sensation, suffocation, convulsions, coma.
Eye contact : Frostbite, blurred vision.
Skin contact : Blisters, frostbite.
Ingestion : Frostbite.
Chronic Health Hazard : No harm expected.

4. First Aid Measures

General advice : None.

Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Then get immediate medical attention.

Skin contact : If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

Ingestion : If a large amount is swallowed, get medical attention.

Inhalation : If adverse effects occur, removed to uncontaminated area. Get medical attention.

5. Fire-Fighting Measures

- Suitable extinguishing media : Use extinguishing agents appropriate for surrounding fire.
- Specific hazards : Negligible fire hazard. Containers may rupture or explode if exposed to heat.
- Fire fighting : Move containers 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 end of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Use extinguishing agents appropriate for surrounding area. Cool containers with water spray until well after the fire is out. Do not get water directly on material. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

6. Accidental Release Measures

- Personal precautions : None.
- Environmental precautions : None.
- Methods for cleaning up : Do not touch spilled material. Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.
- Additional advice : None.

7. Handling and Storage

Handling

Use a suitable hand truck to move containers.

Storage

Store in accordance with all current regulations and standards. Protect from sunlight. Store in a well-ventilated area. Subject to storage regulation: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH, OSHA and NIOSH have not developed exposure limits for any of this product's components.

Engineering measures

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

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 a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
- Hand protection : Wear insulated gloves.
- Eye protection : Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
- Skin and body : Wear appropriate protective, cold-insulating clothing.

protection

9. Physical and Chemical Properties

Form	: Liquid.
Color	: Colorless.
Odor	: Odorless.
Molecular weight	: 39.848
Vapor pressure	: 500 mmHg @ -190°C
Vapor density	: 1.380 (air = 1)
Specific gravity	: 1.40 @ -186°C (water = 1)
Boiling point	: -302.57°F (-185.87°C)
Melting point	: -308.83°F (-189.35°C)
Water solubility	: 3.36% @ 20°C

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. Avoid contact with water or moisture.
Materials to avoid	: None known.
Hazardous decomposition products	: Miscellaneous decomposition products.

11. Toxicological Information

Acute Health Hazard

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

12. Ecological Information

No known effects.

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, refrigerated liquid
Class	: 2.2
UN/ID No.	: UN1951
Labeling	: Non-Flammable Gas

15. Regulatory Information

U.S. Federal Regulations

None of these product components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312

Acute: Yes
Chronic: No
Fire: No
Reactive: No
Pressure: Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
ARGON, LIQUID	7440-37-1	No	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

16. Other Information

Prepared by : Specialty Gases of America, Inc.

For additional information, please visit our website at www.americangasgroup.com.