

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:
 Product Name: Argon

Company Name: Gas Innovations
 18005 E. Hwy 225
 La Porte, TX 77571

Web site address: www.gasinnovations.com Phone Number: +1 (281)471-2200

Emergency Contact: 3E (within United States) +1 (866)303-2640

Intended Use: Industrial Use +1 (352)323-3500

2. HAZARDS IDENTIFICATION

Flammable Gases:

Gas Under Pressure: Compressed gas

Symbol:



GHS Signal Word: Warning

GHS Hazard Phrases:

H280 - Contains gas under pressure; may explode if heated.

OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

GHS Precaution Phrases:

P202 - Do not handle until all safety precautions have been read and understood.

P271 - Use only outdoors or in a well-ventilated area.

GHS Response Phrases:

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and

P405 - Store locked up.

Disposal Phrases:

P403+233 - Store container tightly closed in well-ventilated place.

P410+403 - Protect from sunlight and store in well-ventilated place.

P501 - Dispose of contents/containers in accordance with local/regional/national/international regulations.

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C/125 °F

CGA-PG10 - Use only with equipment rated for cylinder pressure

Use a back flow preventative device in the piping.

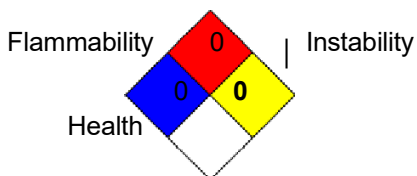
Additional

Hazards

Information

Do not open the valve until connected to equipment prepared for use. Close valve after each use and when empty.

Hazard Rating System:



NFPA:

Special Hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7440-37-1	Argon	100 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
In Case of Inhalation:	If breathed in, move a person into fresh air. If not breathing gives artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Consult a physician.
In Case of Skin Contact:	Wash skin with soap and water. If skin irritation occurs, get medical advice/attention. If frostbite or freezing occurs, 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.
In Case of Eye Contact:	Immediately flush your eyes with plenty of water for at least 15 minutes. Hold eyelids apart and flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
In Case of Ingestion:	Not expected to be a primary route of exposure. If swallowed, get medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing agents appropriate for surrounding fires. Large fires: Use water spray to keep containers cool.
Fire Fighting Instructions:	Evacuate all personnel from the danger area. 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. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L-Fire Protection. Shut off source of gas flow if safe to do so. Ventilate area or move container to a well-ventilated area.
Flammable Properties and Hazards:	Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Avoid release to the environment.
Steps To Be Taken in Case Material Is Released or Spilled:	Do not touch or walk through spilled material. Stop leaks, if possible, without personal risk. Use water spray to reduce vapor or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Do not direct water at spill or source of leak. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements, or confined areas. Allow substance to evaporate. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Keep away from heat, sparks and flames. Keep away from sources of ignition - No smoking. Use spark-proof tools and explosion proof equipment. Avoid using pure nickel. Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. Never attempt to lift a cylinder with its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents.
Precautions To Be Taken in Storing:	Store only where temperature will not exceed 125°F (52°C). Post "No Smoking or Open Flames" signs in storage and use areas. There must be no sources of ignition. Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.
Other Precautions:	When handling a product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; stored and used with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit. Never place a container where it may become part of an electrical circuit.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	NIOSH IDLH
7440-37-1	Argon			
Respiratory Equipment (Specify Type):	When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).			
Eye Protection:	Wear safety glasses when handling cylinders, vapor-proof goggles and a face shield during cylinder change out or whenever contact with product is possible. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.			
Protective Gloves:	Wear neoprene gloves during cylinder change out or wherever contact with product is possible.			
Other Protective Clothing:	Wear metatarsal shoes for cylinder handling, and protective clothing where needed.			
Engineering Controls (Ventilation etc.):	Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid <input type="checkbox"/> Solid
Appearance and Odor:	Colorless & Odorless Gas.
Critical pressure:	4898 kPa
Melting Point:	-189 °C (-308°F)
Boiling Point:	-185.9 °C (-303°F)
Decomposition Temperature:	No data available
Autoignition Pt:	NA
Flash Pt:	NA
Method used:	Not Applicable
Explosive Limits:	NA
Specific Gravity (Water = 1):	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density(air=1)	1.38
Evaporation Rate:	No data.
Solubility in Water:	61 mg/l
pH:	NA
Percent Volatile:	No data.
Molecular Formula:	Ar
Molar mass:	39.948g/mol

10. STABILITY AND REACTIVITY

Reactivity:	No reactivity hazard is expected.
Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.
Incompatibility Materials to Avoid:	Using this product in welding and cutting may create additional hazards. The arc from electric arc welding may form gaseous reaction products such as carbon monoxide and carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc.
Hazardous Decomposition or Byproducts:	Decomposition products of arc welding and cutting originate from the volatilization, reaction, and oxidization of the material being worked
Possibility of Hazardous Reactions:	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Not classified
Irritation / Corrosion	Not classified
Sensitization	No data available.
Mutagenicity	No data available.
Reproductive toxicity:	No data available.
Teratogenicity:	Not classified
Specific target organ toxicity (Single Exposure)	Not classified
Specific target organ toxicity (Repeated Exposure)	Not classified
Aspiration Hazard:	Not classified

12. ECOLOGICAL INFORMATION

General Ecological Information:	Classification criteria are not met. No ecological damage caused by this product.
Persistence and Degradability:	This substance is not expected to biodegrade
Bio accumulative Potential:	No data available.
Mobility in Soil:	No ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Do not attempt to dispose of residual or unused quantities. Return container to supplier. Dispose of contents/containers in accordance with local/regional/national/international regulations.
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14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):	
DOT Proper Shipping name:	UN1006 Argon, 2.2
DOT Hazard Class:	2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
UN/NA number:	UN1006

Labels:



Sea Transport:

Transport document description (IMDG):

UN-No. (IMDG):	1006
Proper Shipping Name (IMDG):	ARGON, COMPRESSED
Class:	2 - Gases

Air Transport:

Transport document description (IATA):

UN-No. (IATA):	1006
Proper Shipping Name (IATA):	Argon, compressed
Class:	2 - Gases

15. REGULATORY INFORMATION**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
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7440-37-1	Argon			
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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
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7440-37-1	Argon	CA: No; MA: Yes; MN: Yes; NJ: Yes; PA: Yes;
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CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
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7440-37-1	Argon	AU: Yes; PH: Yes; JP-ISHL: No; JP – ENCS: Yes; KR KECI - ANNEX 1: Yes; KR KECI - ANNEX 2: NO; TH- TECI: YES; KR – REACH CCA: No; CN: Yes; NZ: Yes; MX: Yes; TW: Yes; VN(Draft): Yes;
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16.OTHER INFORMATION

Revision Date:	08/16/2024
Additional Information About This Product:	No data available.
NFPA Ratings:	0= Minimal Hazard 1= Slight Hazard 2= Moderate Hazard 3= Serious Hazard 4= Severe Hazard
Company Policy or Disclaimer:	The information, recommendations, and suggestions herein were compiled from reference material and other sources believed to be reliable. However, the SDS's accuracy or completeness is not guaranteed by Gas Innovations or its affiliates, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Since conditions of use are beyond our control, no warranties of merchantability of fitness for a particular purpose are expressed or implied. This SDS is not intended as a license to operate under, or a recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.