

Argon Safety Data Sheet P-4563

Making our planet more productive"

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Revision date: 10/13/2016 Date of issue: 01/01/1979

Supersedes: 10/03/2014

SECTION: 1. Product and cor	npany identification	
1.1. Product identifier		
Product form	: Substance	
Name	: Argon	
CAS No	: 7440-37-1	
Formula	: Ar	
Other means of identification	: Shielding gas, argon 40	
1.2. Relevant identified uses of	the substance or mixture and uses advised against	
Use of the substance/mixture	: Industrial use. Use as directed.	
1.3. Details of the supplier of th	e safety data sheet	
	Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 <u>www.praxair.com</u>	
1.4. Emergency telephone num	ber	
Emergency number	: Onsite Emergency: 1-800-645-4633	
	CHEMTREC, 24hr/day 7days/week — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729)	
SECTION 2: Hazard identifica	tion	
2.1. Classification of the substa	ance or mixture	
GHS-US classification		
GHS-US classification Compressed gas H280		
Compressed gas H280 2.2. Label elements		
Compressed gas H280		
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)		
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: WARNING	
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)		
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	:WARNING :H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED	
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 WARNING H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION P202 - Do not handle until all safety precautions have been read and understood P271+P403 - Use and store only outdoors or in a well-ventilated place CGA-PG05 - Use a back flow preventive device in the piping CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG06 - Close valve after each use and when empty 	
Compressed gas H280 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 WARNING H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION P202 - Do not handle until all safety precautions have been read and understood P271+P403 - Use and store only outdoors or in a well-ventilated place CGA-PG05 - Use a back flow preventive device in the piping CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG06 - Close valve after each use and when empty 	
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SECTION 3: Composition/Information	on ingradiante		
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3.1. Substance	A		
	Argon		
CAS No	: 7440-37-1		
Name	Product identifier	%	
Argon	(CAS No) 7440-37-1	99.5 - 100	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	Remove victim to uncontami	nated area wearing self contained breathing apparatus. Keep	
		a doctor. Apply artificial respiration if breathing stopped.	
First-aid measures after skin contact	Adverse effects not expected	from this product.	
First-aid measures after eye contact	Immediately flush eyes thoro	ughly with water for at least 15 minutes. Hold the eyelids open and	
		sure that all surfaces are flushed thoroughly. Contact an Get immediate medical attention.	
First-aid measures after ingestion	Ingestion is not considered a	potential route of exposure.	
4.2. Most important symptoms and effects	, both acute and delayed		
	No additional information ava	ilable	
4.3. Indication of any immediate medical a	ttention and special treatme	nt needed	
None.	and open and open and and		
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	Use extinguishing media app	propriate for surrounding fire.	
5.2. Special hazards arising from the subs	tance or mixture		
Reactivity	No reactivity hazard other that	an the effects described in sub-sections below.	
5.3. Advice for firefighters			
Firefighting instructions	and protective clothing. Imm flow of gas if safe to do so, w safe to do so. Remove conta	the danger area. Use self-contained breathing apparatus (SCBA) ediately cool containers with water from maximum distance. Stop hile continuing cooling water spray. Remove ignition sources if iners from area of fire if safe to do so. On-site fire brigades must 910.156 and applicable standards under 29 CFR 1910 Subpart	
Protection during firefighting	Compressed gas: asphyxiant	t. Suffocation hazard by lack of oxygen.	
Special protective equipment for fire fighters	Use self-contained breathing Contained Breathing Appara	apparatus. Standard protective clothing and equipment (Self tus) for fire fighters.	
Specific methods	 Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems 		
	Stop flow of product if safe to	o do so	
	Use water spray or fog to kno	ock down fire fumes if possible.	
SECTION 6: Accidental release measu	ires		
6.1. Personal precautions, protective equi	pment and emergency proce	dures	
General measures	can be dangerous. Evacuate	s, basements and workpits, or any place where its accumulation area. Ensure adequate air ventilation. Wear self-contained ntering area unless atmosphere is proven to be safe. Stop leak if	
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RAX

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6.1.1.	For non-emergency personnel	No additional information available
6.1.2.	For emergency responders	No additional information available
6.2.	Environmental precautions	
		Try to stop release.
6.3.	Methods and material for containme	ent and cleaning up
		No additional information available
6.4.	Reference to other sections	See also sections 8 and 13.
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by 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. For other precautions in using this product, see section 16.
7.2.	Conditions for safe storage, includi	ng any incompatibilities
Storage	conditions	: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods
		OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling 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; store and use 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.
7.3.	Specific end use(s)	
		None.

SECTION 8: Exposure controls/personal protection

8.1. Control param	eters	
Argon (7440-37-1)		
ACGIH	Not established	
USA OSHA	Not established	
Argon (7440-37-1)		
ACGIH	Not established	
USA OSHA	Not established	
.2. Exposure cont	ols	
Appropriate engineering c	pres	gen detectors should be used when asphyxiating gases may be released. Systems under sure should be regularly checked for leakages. Provide adequate general and local aust ventilation. Consider work permit system e.g. for maintenance activities.

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Hand protection	: Wear working gloves when handling gas containers.
Eye protection	: Wear safety glasses with side shields.
Respiratory protection	: 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. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
Thermal hazard protection	: None necessary.
Environmental exposure controls	: None necessary.
Other information	: Wear safety shoes while handling containers.

SECTION 9: Physical and chemical properties

.1. Information on basic physical and chemical properties			
,	: Gas		
	: Colorless gas.		
Molecular mass	: 40 g/mol		
Color	: Colorless.		
Odor	: No odor warning properties.		
Odor threshold	: No data available		
рН	: Not applicable.		
Relative evaporation rate (butyl acetate=1)	: No data available		
,	: Not applicable.		
Melting point	: -189 °C		
Freezing point	: No data available		
Boiling point	: −185.9 °C		
Flash point	: No data available		
Critical temperature	: -122.4 °C		
Auto-ignition temperature	: Not applicable.		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: Not applicable.		
Critical pressure	: 4898 kPa		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Density	: 0.103 lb/ft ³ Vapor density at 70°F (21.1°C)		
Relative gas density	: 1.38		
Solubility	: Water: 61 mg/l		
Log Pow	: Not applicable.		
Log Kow	: Not applicable.		
Viscosity, kinematic	: Not applicable.		
Viscosity, dynamic	: Not applicable.		
Explosive properties	: Not applicable.		
Oxidizing properties	: None.		
Explosion limits	: No data available		
9.2. Other information			
Gas group	: Compressed gas		
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level		

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SECT	ON 10: Stability and reactivity		
10.1.	Reactivity		
		No reactivity hazard other than the effects described in sub-sections below.	
10.2.	Chemical stability		
10.2.	Chemical stability	Stable under normal conditions.	
10.3.	Possibility of hazardous reactions		
		None.	
10.4.	Conditions to avoid		
		None under recommended storage and handling conditions (see section 7).	
10.5.	Incompatible materials		
		Using this product in welding and cutting may create additional hazards. The arc from electric welding may form gaseous reaction products such as carbon monoxide and carbon dioxide. C and nitrogen oxides may be formed by the radiation from the arc. Other decomposition product arc welding and cutting originate from the volatilization, reaction, and oxidization of the materia being worked.	Dzone
10.6.	Hazardous decomposition products		
		None.	
SECT	ON 11: Toxicological informat	on	
11.1.	Information on toxicological effects		
Acute to	xicity	: Not classified	
Skin corro	osion/irritation	Not classified	
		pH: Not applicable.	
Serious e	ye damage/irritation	Not classified	
	,	pH: Not applicable.	
Respirato	ry or skin sensitization	Not classified	
•	mutagenicity	Not classified	
Carcinog	• •	Not classified	
Reprodu	ictive toxicity	: Not classified	
•	target organ toxicity (single exposure)	: Not classified	
Specific	target organ toxicity (repeated	: Not classified	
exposur			
Aspiratio	on hazard	: Not classified	
SECT	ON 12: Ecological information		
12.1.	Toxicity		
	- general	: No ecological damage caused by this product.	
12.2.	Persistence and degradability		
Argon	(7440-37-1)		
Persis	ence and degradability	No ecological damage caused by this product.	
Argon	(7440-37-1)		
	ence and degradability	No ecological damage caused by this product.	
12.3.	Bioaccumulative potential		-
Argon	(7440-37-1)		
Log Po		Not applicable.	
Log Ko		Not applicable.	
Bioacc	umulative potential	No ecological damage caused by this product.	
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//FAG-No	: 121
Class (IMDG)	: 2 - Gases
Proper Shipping Name (IMDG)	: ARGON, COMPRESSED
JN-No. (IMDG)	: 1006
Fransport by sea	
Fransport by soa	is correctly fitted Ensure valve protection device (where provided) is correctly fitted.
ppecial transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
Special transport precautions	
Other information	: No supplementary information available.
Additional information Emergency Response Guide (ERG) Number	: 121 (UN1006);120 (UN1951)
	2
Hazard labels (DOT)	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173. 113
Proper Shipping Name (DOT) Class (DOT)	: Argon, compressed : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
JN-No.(DOT)	: UN1006
Fransport document description	: UN1006 Argon, compressed, 2.2
n accordance with DOT	LINIADOS Argan compressed 2.2
SECTION 14: Transport information	
Vaste disposal recommendations	 Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
	recommendations. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
Waste treatment methods	: May be vented to atmosphere in a well ventilated place. Consult supplier for specific
3.1. Waste treatment methods	
SECTION 13: Disposal consideration	ons
Effect on the global warming	: None
Effect on ozone layer	: None
2.5. Other adverse effects	
Ecology - soil	No ecological damage caused by this product.
Mobility in soil	No data available.
Argon (7440-37-1)	
Ecology - soil	No ecological damage caused by this product.
Mobility in soil	No data available.
Argon (7440-37-1)	
2.4. Mobility in soil	
Bioaccumulative potential	No ecological damage caused by this product.
Log Now	Not applicable.
Log Pow Log Kow	Not applicable.

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Air transport	
UN-No. (IATA)	: 1006
Proper Shipping Name (IATA)	: Argon, compressed
Class (IATA)	: 2
Civil Aeronautics Law	: Gases under pressure/Gases nonflammable nontoxic under pressure

SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
Argon (7440-37-1)	
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard
	All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations CANADA

Argon (7440-37-1) Listed on the Canadian DSL (Domestic Substances List) Argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Argon (7440-37-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2.2. National regulations

Argon (7440-37-1)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Argon(7440-37-1)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List



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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Argon (7440-37-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	
Argon (7440-37-1)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				

SECTION 16: Other information

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Fumes and gases produced during welding and cutting processes can be dangerous to your health and may cause serious lung disease. KEEP YOUR HEAD OUT OF FUMES. DO NOT BREATHE FUMES AND GASES. Use enough ventilation, local exhaust, or both to keep fumes and gases from your breathing zone and the general area. Short-term overexposure to fumes may cause dizziness, nausea, and dryness or irritation of the nose, throat, and eyes; or may cause other similar discomfort. Contaminants in the air may add to the hazard of fumes and gases. One such contaminant, chlorinated hydrocarbon vapors from cleaning and degreasing activities, poses a special risk. DO NOT USE ELECTRIC ARCS IN THE PRESENCE OF CHLORINATED HYDROCARBON VAPORS—HIGHLY TOXIC PHOSGENE MAY BE PRODUCED. Metal coatings such as paint, plating, or galvanizing may generate harmful fumes when heated. Residues from cleaning materials may also be harmful. AVOID ARC OPERATIONS ON PARTS WITH PHOSPHATE RESIDUES (ANTI-RUST, CLEANING PREPARATIONS)—HIGHLY TOXIC PHOSPHINE MAY BE PRODUCED

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product

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NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: SA - This denotes gases which are simple asphyxiants.

HMIS II	I Rating
	i Rauny

Health Flammability Physical : 0 Minimal Hazard - No significant risk to health

- : 0 Minimal Hazard
- : 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.