



**SECTION 1: Identification**

**1.1. Identification**

Product Identifier : Bloxygen Inert Gas Preservation System  
 Product form : Consumer Commodity Aerosol Can  
 Substance name : Argon  
 Chemical name : Argon  
 CAS No : 7440-37-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Preserve substances sensitive to oxygen or moisture

**1.3. Details of the supplier of the safety data sheet**

IronWood Designs  
 P.O. Box 13838  
 San Luis Obispo, CA 93406  
 (888) 810-8311  
[www.bloxygen.com](http://www.bloxygen.com)

**1.4. Emergency telephone number**

Emergency number : Chemtel, Inc. 1-800-255-3924

**SECTION 2: Hazard(s) identification**


**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

Compressed gas : H280 - Contains gas under pressure; may explode if heated  
 Full text of H-phrases: see section 16

**2.2. Label elements**

**GHS-US labeling**

Hazard pictograms (GHS-US) : 

GHS04

Signal word (GHS-US) : Warning  
 Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated  
 OSHA-H01 - May displace oxygen and cause rapid suffocation  
 Precautionary statements (GHS-US) : P102 – Keep out of reach of children.  
 P103 – Read label before use.  
 P202 - Do not handle until all safety precautions have been read and understood  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
 P308+P313 - If exposed or concerned: Get medical advice/attention  
 P412 – Do not expose to temperatures exceeding 50°C / 120°F

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Argon, Compressed (Main constituent)	(CAS No) 7440-37-1	> 99.9	Compressed gas, H280

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Adverse effects not expected from this product.
- First-aid measures after eye contact : Adverse effects not expected from this product.
- 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

- Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation. If you feel unwell, seek medical advice.
- Symptoms/injuries after skin contact : Adverse effects not expected from this product.
- Symptoms/injuries after eye contact : Adverse effects not expected from this product.
- Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.
- Symptoms/injuries upon intravenous admin : Not known.
- Chronic symptoms : None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Not known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable. Packaging, cap, and label are.
- Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers.
- Reactivity : None.

#### 5.3. Advice for firefighters

- Firefighting instructions : In case of fire: Continue water spray or fog until containers stay cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.
- Protection during firefighting : Standard protective clothing and equipment (e.g., Self-Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation. Due to the small size and content of each cylinder, an accidental release of this product presents significantly less risk of an oxygen deficient environment or other safety hazard than a similar release from a traditional cylinder.

Allow the gas, which is heavier than air, to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for oxygen. Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area.

**6.1.1. For non-emergency personnel**

- Protective equipment : Wear protective equipment consistent with the site emergency plan.
- Emergency procedures : Escape the danger area by the closest safe route. Mark the danger area. Seal off low-lying areas. Keep upwind.

**6.1.2. For emergency responders**

- Protective equipment : Standard protective clothing and equipment (e.g., Self-Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate and limit access. Ventilate area.

**6.2. Environmental precautions**

Try to stop release if safe to do so. For incidental leaks from an individual cylinder or valve, contact the manufacturer for a replacement.

**6.3. Methods and material for containment and cleaning up**

- For containment : Try to stop release if safe to do so.
- Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

**6.4. Reference to other sections**

See also Sections 8 and 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid breathing gas. Use only with adequate ventilation. Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this product could occur without any significant warning symptoms, due to oxygen deficiency.

**7.2. Conditions for safe storage, including any incompatibilities**

- Technical measures : Comply with applicable regulations.
- Storage conditions : Do not expose to temperatures exceeding 50°C (120°F). Keep container closed when not in use. Protect cylinder from physical damage.
- Incompatible products known : None
- Incompatible materials known : None

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

- Appropriate engineering controls : No special respiratory protection is required under normal circumstances of use. Use supplied air respiratory protection if oxygen levels are below 19.5% or unknown during emergency response to a release of multiple containers of this product. If respirator protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. Oxygen levels below 19.5% are considered IDLH by OSHA.
- Hand protection : No special hand protection is required under normal circumstances of use.
- Eye protection : Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
- Skin and body protection : No special protection is required under normal circumstances of use.
- Respiratory protection : No special respiratory protection is required under normal circumstances of use.



**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	: Gas
Appearance	: Clear, colorless gas.
Color	: Colorless
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: -189.35 °C
Freezing point	: No data available
Boiling point	: -185.85 °C
Flash point	: Not Applicable – not flammable
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gas
Explosion limits	: Not applicable - not flammable
Explosive properties	: Not applicable - not flammable.
Oxidizing properties	: None.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 39.95 g/mol
Relative gas density	: Air =1, Argon= 1.38
Solubility	: 3.36% @ 20 °C, slightly soluble
Viscosity	: at 1.013 bar and 0 °C (32 °F): 2.1017E-04 Poise

**9.2. Other information**

Additional information : None.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

None known. Inert gas.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

None known. Argon is an inert gas.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Argon (7440-37-1)</b>	
LC50 inhalation rat (ppm)	820000 ppm/4h

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Aspiration hazard : Not classified  
 Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation. If you feel unwell, seek medical advice.  
 Symptoms/injuries after skin contact : Adverse effects not expected from this product.  
 Symptoms/injuries after eye contact : Adverse effects not expected from this product.  
 Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.  
 Symptoms/injuries upon intravenous administration : Not known.  
 Chronic symptoms : None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available. Argon is naturally occurring and is the third most common gas in nature.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous.  
 Additional information : None.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
 Transport document description : UN1006 Argon, compressed (Argon), 2.2  
 UN-No.(DOT) : UN1006  
 Proper Shipping Name (DOT) : Argon, compressed



# Argon

## Safety Data Sheet

Prepared per <https://www.osha.gov/dsg/hazcom/hazcom-appendix-d.html>  
Date of issue: 09/9/2016      Supersedes: 2013      Version: 1.0

Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115  
Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : 302  
DOT Packaging Bulk (49 CFR 173.xxx) : 314;315  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306;307  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
Other information : No supplementary information available.

### TDG

No additional information available

### Transport by sea

UN-No. (IMDG) : 1006  
Proper Shipping Name (IMDG) : ARGON, COMPRESSED  
Class (IMDG) : 2.2 - Non-flammable, non-toxic gases  
Packing Instruction : P200  
Label : 2.2 (Non-Flammable Gas)



Limited Quantity : No  
Packing Instructions : Emergency Schedule (EMS) Fire = F-C, Spillage = S-V.

### Air transport

UN-No. (IATA) : 1006  
Proper Shipping Name (IATA) : ARGON, COMPRESSED  
Class (IATA) : 2  
Packing Instructions : P200. Passenger aircraft quantity limitation: 75 kg, Cargo aircraft limitation: 150 kg.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

This product is not listed under SARA sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), or TSCA 12(b). This product does not require an OSHA process safety plan. Argon is not on the California Proposition 65 list.

U.S. SARA REPORTING REQUIREMENTS: This gas is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this gas. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. TSCA INVENTORY STATUS: Argon is listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITIES (RQ): Not applicable.

### 15.2. International regulations

#### CANADA

Not listed.

#### Other Regulations

Argon, Compressed, 7440-37-1

US	CA	EU	AU	PH	JP- ENCs	KR- KECI/KECL	KR- TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

### 15.3. US State regulations

Alaska - Designated Toxic and Hazardous Substances: Argon.  
 California - Permissible Exposure Limits for Chemical Contaminants: Argon.  
 Florida - Substance List: Argon.  
 Illinois - Toxic Substance List: Argon.  
 Kansas - Section 302/313 List: No.  
 Massachusetts - Substance List: Argon.  
 Michigan - Critical Materials Register: No.  
 Minnesota - List of Hazardous Substances: Argon.  
 Missouri - Employer Information/Toxic Substance List: Argon.  
 New Jersey - Right to Know Hazardous Substance List: Argon.  
 North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.  
 Pennsylvania - Hazardous Substance List: Argon.  
 Rhode Island - Hazardous Substance List: Argon.  
 Texas - Hazardous Substance List: No.  
 West Virginia - Hazardous Substance List: No.  
 Wisconsin - Toxic and Hazardous Substances: No.

## SECTION 16: Other information

Indication of changes : Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.

Other information : This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.

Full text of H-phrases:

Compressed gas	Gases under pressure Compressed gas
H280	Contains gas under pressure; may explode if heated

SDS US (GHS HazCom 2012)

*This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of IronWood Design's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.*