

# SAFETY DATA SHEET (SDS)

GHS and OSHA 29 CFR §1910.1200 (eCFR) compliant

UN1006



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ISSUE DATE: December 30, 2014

## ARGON, COMPRESSED

Ar

ARGON, ARGON OIL FREE  
Argon Gas, Argon Compressed  
UN 1006

### STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

3316 National Ave., San Diego, Ca. 92113

Phone: 619-234-6750

[WWW.STOODYIND.COM](http://WWW.STOODYIND.COM)

#### PHONE NUMBERS

Product Information: 619-234-6750

24-hour Emergency Response  
Professional Emergency Resource Services  
800-633-8253

#### MILITARY EMERGENCY RESPONSE

800-851-8061

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6830-00-169-0779

6830-00-281-8808

6830-00-290-4291

6830-00-564-8989

6830-00-764-7029

6830-00-782-2637

6830-00-935-1008

6830-00-973-7274

6830-00-985-7281

6830-01-431-0400

6830-01-431-0533

6830-01-431-0576

6830-01-459-3511

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#### SUPPLIER INFORMATION:

Safety and handling equipment, gas cylinders and refills, personal protection equipment, fire extinguishers, cylinder services, respirators, etc. are available at Stody Industrial and Welding Supply, Inc. Our main location is at 3316 National Avenue, (near the 32<sup>nd</sup> Street Naval Base) in San Diego California 92113. Call 1-619-234-6750 or visit our web site, [stodyind.com](http://stodyind.com) for more information.

**DISCLAIMER:** The information contained herein is accurate to the best of our knowledge. Stody Industrial and Welding Supply Inc., does not assume any responsibility or liability for user's reliance or consequences of reliance on the information provided in this SDS. **Stody Industrial and Welding Supply, Inc. makes no warranty or guarantee of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances.**

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# SAFETY DATA SHEET (SDS)

GHS and OSHA 29 CFR §1910.1200 (eCFR) compliant




## ARGON, Compressed

### 1 IDENTIFICATION

- 1(a) **Product identifier used on label**  
Argon, compressed
- 1(b) **Other means of identification:** Ar, argon, argon oil free, argon gas
- 1(c) **Recommended use of the chemical and restrictions on use**  
Recommended use: Welding, various inert gas applications  
Restriction on use: NONE
- 1(d) **Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**  
Chemical Manufacturer: STOODY INDUSTRIAL AND WELDING SUPPLY, INC  
3316 National Avenue  
San Diego, CA 92113  
1-619-234-6750
- 1(e) **Emergency phone number**  
Professional Emergency Resource Services: 800-633-8253  
Military Emergency Resource: 800-851-8061

### 2 HAZARD(S) IDENTIFICATION

- 2(a) **Classification of chemical in accordance with paragraph (d) of §1910.1200**  
Nonflammable
- 2(b) **Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200**

| Signal Word    | Hazard Statement(s)  | Symbol(s)   | Precautionary Statements   |
|----------------|--|---|--|
| <b>Warning</b> | <b>May displace oxygen and cause rapid suffocation.</b><br>(H280) <b>Contains Gases under Pressure; may explode if heated.</b> | <br>Compressed Gas | (P410 + P403)<br><b>Protect from sunlight.</b><br><b>Store in a well-ventilated place.</b> |

- 2(c) **Describe any hazard not otherwise classified that have been identified during the classification process**  
Argon is heavier than air and may accumulate in lowered spaces causing a deficiency of oxygen. Ruptured cylinder may rocket.
- 2(d) **Where an ingredient with unknown acute toxicity is used in a mixture at a concentration = 1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consist of ingredient(s) of unknown acute toxicity is required.**  
Argon consists of 0% of unknown acute toxicity.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

- 3(a) **Chemical name;** Ar
- 3(b) **Common name;** Argon, compressed
- 3(c) **CAS number and other unique identifiers;**  
CAS Number 7440-37-1  
Other unique identifiers No applicable information is available.
- 3(d) **Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.**  
No applicable information is available.

### 4 FIRST-AID MEASURES

- 4(a) **Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:**

#### ROUTES OF EXPOSURE (UNDER NORMAL CONDITIONS) (yes or no)

| INHALATION: Yes            | SKIN: Yes           | EYE CONTACT: Yes    | INGESTION: No       |
|----------------------------|---------------------|---------------------|---------------------|
| Effects: Simple asphyxiant | Effects: None known | Effects: None known | Effects: None known |

#### RAPIDLY EXPANDING STATE ROUTES OF EXPOSURE (yes or no)

| INHALATION: Yes            | SKIN: Yes          | EYE CONTACT: Yes   | INGESTION: No          |
|----------------------------|--------------------|--------------------|------------------------|
| Effects: Simple asphyxiant | Effects: frostbite | Effects: frostbite | Effects: None expected |

**FIRST-AID:** (No action shall be taken involving any personal risk or without suitable training.)

**Inhalation** (asphyxiation); persons suffering from lack of oxygen should be removed to fresh air. If victim is not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Obtain prompt medical attention.

**Skin frostbite;** flush with lukewarm water, and obtain immediate medical attention. **DO NOT RUB EFFECTED AREA.**

**Eye frostbite;** flush eyes with cool water for 15 minutes and obtain immediate medical attention.

**Ingestion;** if symptoms occur, get immediate medical attention.

**5 FIRE-FIGHTING MEASURES**

**5(a) Suitable (and unsuitable) extinguishing media**

Use extinguishing media appropriate, e.g., dry chemical or CO<sub>2</sub>, for surrounding fire. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

**5(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).**

Pressure in a cylinder can build due to nearby fire heat and may rupture if pressure relief devices should fail to function. Self-contained breathing apparatus (SCBA) may be required for rescue workers.

**6 ACCIDENTAL RELEASE MEASURES**

**6(a) Personal precautions, protective equipment, emergency procedures.**

Evacuate all personnel from the affected area. Monitor oxygen level ( $\geq 19.5\%$ ). Use appropriate air-fed respirator or self-contained breathing apparatus if oxygen level is unknown or  $< 19.5\%$ . Ventilate area or remove cylinders to an outdoor location. Shut off leak source when it can be done safely. If leaking from cylinder or cylinder valve, contact your supplier.

**6(b) Method and materials for containment and cleaning up.**

Use water spray to reduce or divert vapor cloud drift. Isolate area until gas has dissipated and been determined safe.

**7 HANDLING AND STORAGE**

**7(a) Precautions for safe handling.**

See Para. 2(b)

**7(b) Conditions for safe storage, including any incompatibilities.**

| Conditions for safe storage  | Incompatibilities                              |
|--|--|
| <ol style="list-style-type: none"> <li>1. Store and use with adequate ventilation.</li> <li>2. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over.</li> <li>3. Protect cylinders from physical damage; do not drag, roll, slide or drop.</li> <li>4. Full and empty cylinders should be segregated.</li> <li>5. Do not allow storage area temperature to exceed 125°F (52°C). Full and empty cylinders should be segregated.</li> <li>6. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time.</li> <li>7. Compressed gas cylinders to be refilled by qualified producers of compressed gases only.</li> <li>8. Use a suitable hand truck for cylinder movement.</li> <li>9. Never attempt to lift a cylinder by its valve protection cap.</li> <li>10. Keep cylinders and their valves free from oil and grease.</li> <li>11. Open valve slowly.</li> <li>12. If user experiences difficulty operating cylinder valve, discontinue use and contact supplier.</li> <li>13. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur.</li> <li>14. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.</li> <li>15. Use an adjustable strap wrench to remove over-tight or rusted caps.</li> </ol> | <p>No applicable information is available.</p> |

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8(a) OSHA permissible exposure limit (PEL), American Conference of Governments Industrial Hygienists (ACGIH) Threshold Limits Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available. — PEL: Simple Asphyxiant — TLV: Simple Asphyxiant**

**Maritime:** [29 CFR 1915.1000 Table Z-Shipyards](#) -- Simple asphyxiants. The limiting factor is the available oxygen which shall be at least 18 percent and be within the requirements addressing explosion in subpart B of part 1915.

**8(b) Appropriate engineering controls.**

Natural or mechanical air circulation is needed to maintain oxygen levels.

**8(c) Individual protection measures, such as personal protective equipment.**

Safety glasses/goggles, work gloves (gloves must be clean and free of oil or grease), and safety shoes are recommended when handling cylinders.

**9 PHYSICAL and CHEMICAL PROPERTIES**

|   |  |
|---|--|
| a) Appearance (physical state, color, etc.)     | Colorless Gas  |
| b) Odor   | Odorless   |
| c) Odor threshold                               | Not applicable   |
| d) pH   | Not applicable   |
| e) Melting point/freezing point                 | -308.6°F (-189.2° C)                                       |
| f) Initial boiling point                        | -302.6°F (-185.9°C)  |
| g) Flash point                                  | Not applicable   |
| h) Evaporation rate                             | Not applicable   |
| i) Flammability (solid, gas)                    | Not applicable   |
| j) Upper/lower flammability or explosive limits | Not applicable   |
| k) Vapor pressure                               | 500 mmHg @ -310° F (-190° C)                               |
| l) Vapor density                                | 1.784 g/L @ 32.0° F (0°C)                                  |
| m) Relative density                             | 1.38 (air = 1)   |
| n) Solubility(ies)                              | Water, 0.056 Vol./Vol. at 60° F (15.6°C), slightly soluble |
| o) Partition coefficient: n-octanol/water       | Not applicable   |
| p) Auto-ignition temperature                    | Will not occur   |
| q) Decomposition temperature                    | None   |
| r) Viscosity                                    | 0.0225 cP @ 80.3° F (26.85°C)                              |

**10 STABILITY and REACTIVITY**

- 10(a) **Reactivity**  
Not considered to be reactive
- 10(b) **Chemical stability**  
Stable
- 10(c) **Possibility of hazardous reactions**  
None found
- 10(d) **Conditions to avoid (e.g., static discharge, shock, or vibration)**  
None found
- 10(e) **Incompatible materials**  
None found
- 10(f) **Hazardous decomposition products**  
Will not occur

**11 TOXICOLOGICAL INFORMATION**

*Description of the various toxicological (health) effects and available data used to identify those effects, including:*

- 11(a) **Information on likely routes of exposure (inhalation, ingestion, skin and eye contact);**  
Argon can be absorbed into the body by Inhalation. Target organ: Central Nervous System.
- 11(b) **Symptoms related to the physical, chemical and toxicological characteristics;**  
Dizziness, unconsciousness, asphyxia; skin, eye frostbite (on contact with liquid).
- 11(c) **Delayed and immediate effects and also chronic effects from short- and long-term exposure;**  
Short-term effects: Suffocation. Liquid may cause frostbite.
- 11(d) **Numerical measures of toxicity (such as acute toxicity estimates);**  
No identifiable acute toxicity.
- 11(e) **Whether the hazardous chemical is listed in the International Toxicology Program (NTP) Report on Carcinogenic (latest edition) or has been found to be a potential carcinogenic in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.**  
Argon is not listed as a carcinogenic or potential carcinogenic by NTP, OSHA or IARC.

**12 ECOLOGICAL INFORMATION**

- 12(a) Ecotoxicity (aquatic and terrestrial, where available)**  
This product does not contain ecotoxicological properties, aquatic or terrestrial
- 12(b) Persistence and degradability**  
No adverse information found
- 12(c) Bioaccumulative potential**  
This product does not have a bioaccumulative potential
- 12(d) Mobility in soil**  
No adverse information found
- 12(e) Other adverse effects (such as hazardous to the ozone layer)**  
No adverse ecological effects are expected. Argon does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82). Argon is not listed as a marine pollutant by DOT (49 CFR Part 171).

**13 DISPOSAL CONSIDERATIONS**

- 13(a) Description of waste residue and information on their safe handling and method of disposal, including the disposal of any contaminated packaging.**  
Do not attempt to dispose of cylinder or its contents. Cylinder(s) and unused contents should be returned to supplier for disposal in accordance with appropriate Federal, State, local regulation.

**14 TRANSPORTATION INFORMATION**

- 14(a) UN number:** UN 1006
- 14(b) UN proper shipping name:** Argon, compressed
- 14(c) Transportation hazard class(es):** 2.2 (Nonflammable Gas)
- 14(d) Packing group, if applicable:** Product is not listed
- 14(e) Environmental hazards (e.g.,) Marine pollutant (yes/No):** No
- 14(f) Transport in bulk (according to Annex II of MARPOL 73/78 and IBC Code):**  
Product does not fall under purview of cited regulations.
- 14(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside of their premises:**  
Cylinders should be properly separated from non-compatible gas cylinders and transported in a upright, secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

**15 REGULATORY INFORMATION**

- 15(a) Safety, health and environmental regulations specific for the product in question.**  
User(s) of this product is responsible for regulatory compliance on a federal, state, and local level.  
U.S. FEDERAL REGULATIONS:  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
40 CFR PART 68, Risk Management for Chemical Accidental Release, does not list air as a regulated substance.  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (40 CFR Parts 117 and 302):  
Reportable Quantity (RQ): None  
SARA: Superfund Amendment and Reauthorization Act  
SECTION 302/304: Requires emergency planning on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40 CFR Part 355).  
Extremely Hazardous Substances: None  
Threshold Planning Quantity (TPQ): None  
SECTIONS 311/312: Require submission of material safety data sheets (MSDSs) and chemical inventory reporting with identification of EPA defined hazard classes (40 CFR Part 370). The hazard classes for this product are:  
ACUTE HEALTH (Immediate): Yes      CHRONIC HEALTH (Delayed): No  
PRESSURE: Yes      REACTIVITY: No  
FIRE: No

15(a) continued on page 5

**15 REGULATORY INFORMATION** (continued from page 4)

TSCA: Toxic Substance Control Act: Argon is listed on the TSCA inventory.

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:

29 CFR 1910.119, Appendix A, does not list argon as a highly hazardous chemical.

No adverse ecological effects are expected. Argon does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82). Argon is not listed as a marine pollutant by DOT (49 CFR Part 171).

Shipment of compressed gas cylinders which have not been filled with the owner's consent is a violation of Federal law (49 CFR Part 173.301 (b)).

CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): Argon is not listed.

CANADIAN REGULATIONS: WHIMS Classification: Non-controlled, A (compressed gases)

**16 OTHER INFORMATION, including date of preparation or last revision****16(a) OTHER INFORMATION:****DO NOT DISCHARGE TOWARD ANYONE**

SPECIAL PRECAUTIONS: Use piping and equipment adequately designed to withstand pressures to be encountered. Use a check valve or other protective apparatus in any line or piping from the cylinder to prevent reverse flow.

**NFPA RATINGS:**

2 **HEALTH-Blue: = 3 FLAMMABILITY-Red: = 0 INSTABILITY-Yellow: = 0 SPECIAL HAZARDS\*-White: = SA**

**LEGEND: 0-4 – 0-least hazardous; 4-most hazardous**

**\*OX (Oxidizers), W (Water reactives), SA (Simple Asphyxiants), (blank if no special hazard)**

**STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:**

|                              |         |
|------------------------------|---------|
| <b>THREADED:</b> 0-3000 psig | CGA 580 |
| 3001-5500 psig               | CGA 680 |
| 5501 - 7500 psig             | CGA 677 |

**PIN-INDEXED YOKE:** Not available

**ULTRA HIGH INTEGRITY:** 0-3000 psig CGA 718

Use the proper CGA connections, **DO NOT USE ADAPTERS**

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**Revision: 2 (May 17, 2015)**  
**ISSUE DATE: December 30, 2014**

1 Information Sources: Data is compiled from a variety of sources, including publicly available documents, internal data and other sources.

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