

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** ARGON COMPRESSED

**Part Number:** 216001

**Recommended Use of the Chemical and Restriction on Use:** Industrial use (welding)

**Details of Manufacturer or Importer:**

Adventure Operations Australia Pty Ltd

15-19 Reid Way

Tullamarine VIC 3043

**Phone Number:** 1300 555 197

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



gas cylinder

Press. Gas D H280 Contains gas under pressure; may explode if heated.

**Signal Word** Warning

**Hazard Statements**

H280 Contains gas under pressure; may explode if heated.

**Precautionary Statements**

P410+P403 Protect from sunlight. Store in a well-ventilated place.


## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterisation: Substances**

**CAS No. Description**

Substance

**Hazardous Components:**

7440-37-1	argon		Press. Gas R, H281	100%
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## 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:** Not expected to present a significant hazard.

**Eye Contact:** Not expected to present a significant hazard.

**Ingestion:** Ingestion is not considered a potential route of exposure.

**Symptoms Caused by Exposure:**

High concentrations may cause asphyxiation. Symptoms may include loss of consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Apply artificial respiration if breathing stopped.

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### 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Use water spray to cool fire exposed containers.

Gas heavier than air. May accumulate in confined areas, particularly at ground or below ground level.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

**Methods and Materials for Containment and Cleaning Up:**

Stop flow of product if safe to do so. If not, bring the cylinder outdoors, in a ventilated area, and after that empty it in the atmosphere.

### 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid inhalation of vapours. Use only outdoors or in a well-ventilated area.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Only experienced and properly instructed persons should handle gases under pressure.

Open slowly the valve in order to avoid pressure shot. Do not allow backfeed into the container. Avoid the backfeed of water. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Close container valve after each use and when empty, even if still connected to equipment. Do not attempt to transfer gases from one cylinder/container to another. Do not use direct flame or electrical heating devices to raise the pressure of a container.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Do not smoke while handling product.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Do not expose to the sun or temperatures exceeding 50 °C. Keep containers in upright position. Protect from heat, sparks, open flames and other sources of ignition. Keep away from combustible materials. Containers' valve guards or caps should be in place. Check periodically for damage or leaks.

### 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

**7440-37-1 argon**

NES Asphyxiant

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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Avoid under-oxygenated atmospheres (O<sub>2</sub><18%). In high concentrations may cause asphyxiation.

Oxygen gas detectors should be used when asphyxiating gases may be released.

**Respiratory Protection:**

Wear an approved self-contained breathing apparatus in case of insufficient ventilation or leaks. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Safety leather gloves, protective clothing and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

**Form:** Gas

**Colour:** Colourless

**Odour:** Odourless

**Odour Threshold:** Odourless

**pH-Value:** Not applicable

**Melting point/Melting range:** -189.34 °C (1.013 bar)

**Initial Boiling Point/Boiling Range:** -186 °C

**Flash Point:** Not applicable

**Flammability:** Product is not flammable.

**Auto-ignition Temperature:**

**Decomposition Temperature:** No information available

**Explosion Limits:**

**Lower:** Not applicable

**Upper:** Not applicable

**Vapour Pressure:** Not applicable

**Density at 20 °C:** 0.00181 g/cm<sup>3</sup>

**Relative Density at 20 °C:** 1.38 g/cm<sup>3</sup>

**Vapour Density at 15 °C:** 1.6903 kg/m<sup>3</sup> (1.013 bar)

**Evaporation Rate:** Not applicable

**Solubility in Water at 15 °C:** 67 mg/L (1.013 bar)

**Partition Coefficient (n-octanol/water):** Not determined.

**Viscosity at 0 °C:** 2.1017E-04 Poise (1.013 bar)

**Additional Information:**

Critical temperature: -122.46 °C

Critical pressure: 48.63 bar

Critical density: 535.6 kg/m<sup>3</sup>

Triple point temperature: -189.34 °C

Triple point pressure: 0.687 bar

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:**

No hazardous reactions will occur.

Inert gas

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**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Combustible materials.**Hazardous Decomposition Products:**

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

### 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****Acute Health Effects****Inhalation:** High concentrations may cause asphyxiation. Symptoms may include loss of consciousness.**Skin:** No adverse health effects expected.**Eye:** No adverse health effects expected.**Ingestion:** Ingestion is not considered a potential route of exposure.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

### 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available**Aquatic toxicity:** No information available**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available

### 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:**

May be vented to atmosphere in a well ventilated place.

Do not discharge into any place where its accumulation could be dangerous.

Dispose according to applicable local and state government regulations.

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**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION**

<b>UN Number</b>	1006
<b>Proper Shipping Name IATA</b>	ARGON, COMPRESSED Cargo Pkg Inst: 200 Max Net Qty/Pkg: 150kg Passenger Pkg Inst: 200 Max Net Qty/Pkg: 75kg ERG Code: 2L
<b>Dangerous Goods Class</b>	2.2
<b>Packing Group:</b>	Not applicable
<b>Marine pollutant:</b>	No
<b>EMS Number:</b>	F-C,S-V
<b>Hazchem Code:</b>	2T
<b>Limited Quantities:</b>	120 mL
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P200

**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

7440-37-1 | argon

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Not Scheduled.

**16 . OTHER INFORMATION****Date of Preparation or Last Revision:** 01.07.2019**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Press. Gas D: Gases under pressure: Dissolved gas

Press. Gas R: Gases under pressure: Refrigerated liquefied gas

**Data compared to the previous version altered:** Argon (216001)**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.