

## Section 1. Identification of the substance/mixture and of the Company

**Product Name:** ARGON  
**Chemical formula:** Ar  
**UN Number:** UN1006  
**Uses:** Industrial and Professional. Perform risk assessment prior to use.  
 Purging and Laboratory use  
 Synthetic/Analytical Chemistry  
 Contact Supplier for more information.

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 Chief Operating Manager

## Section 2. Hazards Identification

### Classification of the substance or mixture

Gases under pressure - Compressed gas - Warning - (CLP: Press. Gas) - H280

### Classification EC 67/548 or EC 1999/45

Not classified as dangerous substance/mixture.  
 Not included in Annex VI.  
 No EC labelling required.

### Label Elements

Hazard Pictograms



Hazard pictograms code: GHS04  
 Signal word: Warning  
 Hazard Statements: H280 - Contains gas under pressure; may explode if heated.  
 Precautionary Statements  
   - Storage: P403 - Store in a well-ventilated place

**Other Hazards:** Asphyxiant in high concentrations.

## Section 3. Composition/Information on Ingredients

**Substance/Mixture:** Substance  
**Substance Name:** Argon  
**CAS NO.:** 7440-37-1  
**Index-Nr.:** ----  
**EC No:** 231-147-0

### Section 3. Composition/Information on Ingredients (continued)

Contains no other components or impurities which will influence the classification of the product.

**REACH Registration Number:** Listed in Annex IV/V REACH, exempted from registration.  
Registration deadline not expired  
Registration not required: Substance manufactured or imported < 1t/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

### Section 4. First Aid measures

#### Inhalation

Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested.  
Call a doctor. Apply artificial respiration if breathing stopped.

#### Skin/Eye contact

Adverse effects not expected from this product.

#### Ingestion

Ingestion is not considered a potential route of exposure.

#### Most Important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness.  
Victim may not be aware of asphyxiation.

### Section 5. Fire Fighting Measures

#### Special extinguishing media

All known extinguishing media can be used

#### Specific Hazards

Exposure to fire may cause containers to rupture/explode.

#### Hazardous combustion products

None.

#### Specific methods

Coordinate fire measure to the surrounding fire.  
Cool endangered containers with water spray jet from a protected position.  
Do not empty contaminated fire water into drains. If possible, stop flow of products.

#### Special protective equipment for fire fighters

In confined space use self-contained breathing apparatus.

### Section 6. Accidental Release Measures

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

Try to stop release. Evacuate area.  
Wear self-contained breathing apparatus when entering area unless atmosphere is proved safe.  
Ensure adequate air ventilation.  
Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

#### Environmental precautions

Try to stop release.

#### Clean up methods

Ventilate area.

## Section 7. Handling and Storage

### Safe Use of the product

Only experienced and properly instructed persons should handle gases under pressure.

The product must be handled in accordance with good industrial hygiene and safety procedures.

Use only properly specified equipment that is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Do not smoke while handling product.

Ensure the complete gas system was (or is regularly) checks for leaks before use.

### Safe handling of the gas receptacle

Do not allow back feed into the container.

Protect cylinders from physical damage; do not drag, roll, slide or drop.

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.

If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water.

Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder to another.

Never use direct flame or electrical heating devices to raise the pressure of a container.

Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

### Conditions for safe storage

Keep container below 50°C in a well-ventilated place.

Containers should be stored in the vertical position and properly secured to prevent toppling.

Stored containers should be periodically checked for general condition and leakage.

Container valve guards and caps should be in place.

Stored containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

## Section 8. Exposure Controls/Personal Protection

### Exposure controls

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

Consider work permit system e.g. for maintenance activities.

System under pressure should be regularly checked for leakages.

Ensure exposure is below occupational exposure limits (where available).

Provide adequate general and local exhaust ventilation.

### Personal protection

Conduct and document risk assessment in each work area to assess the risks related to the use of the product and to select the appropriate PPEs.

Wear leather safety gloves and safety shoes when handling cylinders.

Wear safety glasses with side shields or goggles when transferring or breaking transfer connections.

Ensure adequate ventilation. Protect eyes, face and skin from liquid splashes.

### Environmental exposure control

None

## Section 9. Physical and Chemical Properties

### General Information

#### Appearance

- Physical state at 20°C / 101.3 kPa:	Gas.
- Colour:	Colourless.
Odour:	No odour warning properties.
Odour threshold:	Odour threshold is subjective and inadequate to warn for overexposure.
Molar mass (g/mol):	40
Melting point (°C):	-189
Boiling point (°C):	-186
Critical temperature (°C):	-122
Flash point (°C):	Not applicable for gases and gas-mixtures
Evaporation rate (ether=1):	Not applicable for gases and gas-mixtures
Auto-ignition temperature (°C):	Not applicable
Flammability range (vol% in air):	Non flammable
Vapour pressure (20°):	Not applicable
Relative density, gas (air=1):	1.38
Relative density, liquid (water=1):	Not applicable
Solubility in water (mg/l):	61
Partition coefficient n-octanol/water:	Not applicable for inorganic gases.

#### Other data:

Gas/vapour heavier than air.

May accumulate in confined spaces, particularly at or below ground level.

## Section 10. Stability and reactivity

### Reactivity

No reactivity hazard other than the effects described in sub-sections below.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

None

#### Conditions to avoid

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

#### Hazardous decomposition products

None

## Section 11. Toxicological Information

### General

No known effects of this product.

### Acute toxicity

No known toxicological effects from this product.

## Section 12. Ecological Information

### General

No known ecological damage caused by this product

## Section 13. Disposal Considerations

### General

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

May be vented to atmosphere in a well ventilated place.

## Section 14. Transport Information

**UN number:** 1006  
**UN Proper Shipping Name:** ARGON, COMPRESSED

**Labelling ADR, IMDG, IATA:**



2.2: Non-flammable, non-toxic gas.

### Land Transport (ADR/RID)

**Hazard number:** 20  
**Transport hazard class (es):** 2  
**Classification code:** 1 A  
**Packing instruction(s):** P200  
**Environmental hazards:** None

### Sea Transport (IMDG)

**Class:** 2.2  
**Packing Instruction/group:** P200  
**Emergency Schedule (EmS) Fire:** F-C  
**Emergency Schedule (EmS) Spillage:** S-V

### Air Transport (IATA-DGR, ICAO-TI)

**Class:** 2.2  
**Passenger and Cargo Aircraft:** Allowed  
**Packing Instruction - Passenger and Cargo Aircraft:** 200  
**Packing Instruction - Cargo Aircraft only:** 200

### Special precautions for user

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 they are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure that the valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure compliance with applicable regulations.

## Section 15. Regulatory Information

**EU legislation:** None  
**National legislation:** Ensure all national/local regulations are observed.

#### Section 16. Other Information

**List of full text of H-statements**

**In section 3:** H280 - Contains gas under pressure ; may explode if heated.

**DISCLAIMER OF LIABILITY:**

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Details given in this document are believed to be correct at the time of going to press. Before using this product, a thorough material compatibility and safety study should be carried out. This MSDS was prepared and is to be used only for this product.

**End of document.**