



M A T E R I A L S A F E T Y D A T A S H E E T

<u>Identification of substance</u> Ar	Trade Name Argon	Manufacturer: OXYGASES LLC. PO Box - 89968, AL Ghail Industrial Zone, R.A.K, U.A.E. EMERGENCY TELEPHONE NUMBER +971 7 2216029, +971 50 235 3677
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General

Argon makes up 0.93% of the atmosphere. Like helium, this is a mono atomic gas. Argon is a colorless, odorless, inert gas that does not exist in nature other than in the air.

It cannot sustain life, but it is highly used in certain industrial applications due to its high level of chemical inertness and the relative ease with which it can be produced.

Argon is used extensively in the incandescent lamp industry for filling light bulbs and fluorescent tubes and for radio vacuum tubes.

It also has an essential use as an inert gas shield in arc welding and plasma jet torches.

Applications

Argon being inert finds applications in industries requiring low reactivity with good stability. Following are the common applications for Argon:

- Blanketing
- Purging
- Inserting
- Degasification in Steel Marking
- Lighting Industry
- Shielding Gas in Metal Fabrication
- Analytical Applications /Laboratories



Hazards Identifications

Hazard description

Compressed gas in high concentration may cause asphyxiation. Argon is non-toxic, but may cause suffocation by displacing the oxygen in air.





Handling and Storage

Close valve after each use and when empty. Cylinders must not be recharged except by Or with the concern of owner. Acetylene cylinders should be stored upright and be firmly Secured to prevent falling or being knocked over.

Keep the quantity stored as small as possible.

Information pertaining to particular dangers for man and environment:

May displace Oxygen and cause Asphyxiation.

Danger	Warning
 <p data-bbox="365 1066 690 1102">May cause Asphyxiation.</p>	 <p data-bbox="967 1039 1349 1108">Contains gas under pressure; may explode if heated.</p>

Prevention:

Inhalation Persons suffering from lack of oxygen should be removed to fresh air. If victim is not breathing, administer artificial respiration. If breathing is difficult, qualified personnel may give Oxygen. Obtain prompt medical attention.

Eye Contact Flush eyes thoroughly with warm water. Hold the eyelids Open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Seek Medical attention in case discomfort persists.

Skin Contact Flush with Water. Seek Medical attention in case discomfort persists.

Ingestion Not applicable, the product is a gas at normal temperature and pressure

Response:

In case of fire: Keep cylinder away from fire surrounding.



Handling and Storage:

Use no oil or grease. Do not store in a confined space.
 Open valve slowly to avoid pressure shock.
 Post "No Smoking" AND "Asphyxiant" signs in the storage area.
 Do not drop, tip or roll containers on their side.
 Keep container below 50°C in a well ventilated place.
 Never allow any unprotected part of the body to touch un-insulated pipes or vessels which contain cryogenic fluids.
 Protect from sunlight. Store in a well-ventilated place.

First Aid Measures:

After inhalation : Supply fresh air; immediately consult doctor in case of complaints.
 After skin contact : Generally the product does not irritate the skin.
 After eye contact: Rinse opened eye for at least 15minutes under running water.
 Then consult a doctor.
 After swallowing: Not applicable

Fire Fighting Measures:

Argon is nonflammable and does not support combustion. Use extinguishing media appropriate for surrounding fire.
 Special Fire Fighting Instructions Argon is a simple asphyxiant. If possible, remove argon cylinders from fire area or cool with water. Self-contained breathing apparatus may be required for rescue workers.

Unusual Fire and Explosion Hazards Upon exposure to intense heat or flame, cylinder may vent rapidly and/or rupture violently. Most cylinders are designed to vent contents when exposed to elevated temperatures. Pressure in a container can build up due to heat of fire & may rupture the container if pressure relief devices fail to function.

Protective Equipment:

Wear self-contained respiratory protective device.

Transport Information

CAS Number	7440-37-1
DOT Hazard Class	Non Flammable 2.2
DOT Identification Number	UN1006
DOT / IMO Name	Argon Compressed
Shipping Label	Nonflammable Gas



**Physical and Chemical Properties**

Form	Gaseous
Appearance	Colour less
Odor	Odorless
Physical Pressure	Gas
Vapour Pressure	N/Ap
Vapor Density (Air = 1)	1.38
Boiling Point	-186°C
Solubility in water	3.35%
Specific Gravity (H ₂ O =1)	1.4
Evaporation Rate	Gas
Odor Threshold	None