



<b>Product Name</b>	Argon
<b>Chemical Formula</b>	Ar
<b>Trade Names</b>	Argon, Compressed Argon, High Purity (N4.8) Argon, Instrument grade (N5.0)
<b>Colour coding</b>	Argon Compressed Peacock blue (F.08) body Argon High Purity.(N4.8) Peacock blue (F.08) Body with the "HP" decal affixed centrally on the body of the cylinder. Argon Instrument grade (N5.0) Peacock blue (F.08) body with the "Instrument Grade" logo affixed to the body of the cylinder. Argon, Ultra High Purity (N5.0) Peacock blue (F.08) body with the "UHP" decal affixed centrally to the body of the cylinder.
<b>Valve</b>	All of the above grades have the Neriki- Brass 5/8 inch right hand BSP female positive pressure valve.
<b>Company Identification</b>	<b>RAKEETH IND. GASES CO LLC</b> 483/1 Street Al Sajaa industrial area SHARJAH, UAE Mob No: 0565264605 Tel No: 065265161
<b>EMERGENCY NUMBER</b>	<b>997 (CIVIL DEFENCE UAE) (24 hours)</b>

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Argon
Chemical Family	Inert Rare Gas
CAS No.	7440-37-1
UN No.	1006
ERG No.	121
Hazard Warning	2 C Non flammable gas

## 3 HAZARDS IDENTIFICATION

### Main Hazards

All cylinders are portable gas containers, and must be regarded as pressure vessels at all times. Argon does not support life. It can act as a simple asphyxiant by diluting the concentration of oxygen in air below the levels necessary to support life.

### Adverse Health Effects

Inhalation of Argon in excessive concentrations can result in dizziness, nausea, vomiting, loss of consciousness and death.

### Chemical Hazards

Argon is extremely inert and forms no known chemical compounds.

**Biological Hazards** No known effect.

### Vapour Inhalation

As Argon acts as a simple asphyxiant death may result from errors in judgement, confusion, or loss of consciousness, which prevents self-rescue. At low oxygen concentrations, unconsciousness and death may occur in seconds without warning.

## 4 FIRST AID MEASURES

<b>Eye/Skin Contact</b>	No known effect.
<b>Ingestion</b>	(See Section 3 above)
<b>Inhalation</b>	

Prompt medical attention is mandatory in all cases of overexposure to Argon. Rescue personnel should be equipped with self-contained breathing apparatus. Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be removed to an uncontaminated area, and given mouth-to-mouth resuscitation and supplemental oxygen.

## 5 FIRE FIGHTING MEASURES

### Extinguishing Media

As Argon is an inert gas, it does not contribute to the fire, but could help with the extinguishing by reducing the oxygen content of the air by dilution to below the level to support combustion.

### Specific Hazards

Argon does not support life. It can act as a simple asphyxiant by diluting the concentration of oxygen in the air below the levels to support life.

### Emergency Actions

If possible, shut off the source of excess Argon. Evacuate area. All cylinders should be removed from the vicinity of the fire. Cylinders that cannot be removed should be cooled with water from a safe distance to prevent build-up of excessive pressure. Cylinders that have been exposed to excessive heat should be clearly identified and returned to supplier..

### Protective Clothing

Self-contained breathing apparatus. Safety gloves, goggles and shoes, or boots, should be worn when handling cylinders.

### Environmental Precautions

Argon is heavier than air and could accumulate in low-lying areas. Care should be taken when entering a potentially oxygen-deficient environment. If possible, ventilate the affected area.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Do not enter any area where Argon has been spilled unless tests have shown that it is safe to do so.

### Environmental Precautions

Argon does not pose a hazard to the environment.

### Small Spills

Shut off the source of escaping Argon. Ventilate the area.

### Large Spills

Evacuate the area. Shut off the source of the spill if this can be done without risk. Restrict access to the area until completion of the clean-up procedure. Ventilate the area using forced-draught if necessary.

## 7 HANDLING AND STORAGE

Do not allow cylinders to slide or come into contact with sharp edges. Argon cylinders may be stacked horizontally provided that they are firmly secured at each end to prevent rolling. Use a "first in - first out" inventory system to prevent full cylinders from being stored for excessive periods of time. Keep out of reach of children.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Hazards

As Argon is a simple asphyxiant, avoid any areas where spillage has taken place. Only enter once testing has proved the atmosphere to be safe.

### Engineering Control Measures

Engineering control measures are preferred to reduce exposure to oxygen-depleted atmospheres. General methods include forced-draught ventilation, separate from other exhaust ventilation systems. Ensure that sufficient fresh air enters at, or near, floor level.

### Personal Protection

Self-contained breathing apparatus should always be worn when entering area where oxygen depletion may have occurred. Safety goggles, gloves and shoes or boots should be worn when handling cylinders.

**Skin** No known effect.

## 9 PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL DATA

Chemical Symbol	Ar
Molecular Weight	39,948
Specific Volume @ 20°C & 101,325 kPa	603,7ml/g
Colour	None
Taste	None
Odour	None



## MATERIAL SAFETY DATA SHEET (MSDS) ARGON (Ar)

### 10 STABILITY AND REACTIVITY

#### Conditions to avoid

The dilution of the oxygen concentration in the atmosphere to levels which cannot support life. Never use cylinders as rollers or supports, or for any other purpose than the storing of Argon. Never expose cylinders to excessive heat, as this may cause sufficient build-up of pressure to rupture the cylinders.

#### Incompatible Materials

As Argon is inert it may be contained in systems constructed of any of the common metals which have been designed to safely withstand the pressures involved.

**Hazardous Decomposition Products** None

### 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	No known effect
Skin & eye contact	No known effect
Chronic Toxicity	No known effect
Carcinogenicity	No known effect
Mutagenicity	No known effect
Reproductive Hazards	No known effect

(For further information see Section 3. Adverse Health effects)

### 12 ECOLOGICAL INFORMATION

Argon is heavier than air and can cause pockets of oxygen-depleted atmosphere in low-lying areas. It does not pose a hazard to the ecology.

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Methods

Small amounts may be blown to the atmosphere under controlled conditions. The gas supplier should only handle large amounts.

#### Disposal of Packaging

The gas supplier must only handle the disposal of cylinders.

### 14 TRANSPORT INFORMATION

#### ROAD TRANSPORTATION

UN No	1006
ERG No	121
Hazchem warning	2C Non-flammable gas

#### SEA TRANSPORTATION

IMDG	1006
Class	
Packaging group	
Label	Non-flammable gas

#### AIR TRANSPORTATION

ICAO/IATA Code	1006
Class	2.2
Packaging group	
Packaging instructions	
- Cargo	200
- Passenger	200
Maximum quantity allowed	
- Cargo	150kg
- Passenger	75kg

Rakeeth  
Industrial Gases