

## Argon (Refrigerated)

### 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Trade name** : Argon (Refrigerated)  
**SDS No.** : 001B  
**Chemical Formula** : Ar  
**Company Identification** : Air Liquide Philippines Inc.  
**Main Office** : 12F Ecotower, 32<sup>nd</sup> St. cor. 9<sup>th</sup> Ave., Bonifacio Global City, Taguig City 1634, Philippines  
**Main Plant** : Sandoval Ave., Pinagbuhatan, Pasig City  
**Phone No.** : (02) 838 – 1780 to 83 / 837-8135 to 37 / 838-1756  
: 09189168312 (Customer hotline 6PM-8AM)

### 2 HAZARDS IDENTIFICATION

#### Classification of the substance

- **Physical Hazard** : Gases under pressure - Refrigerated liquefied gas
- **Health Hazard** : no acute toxicity

#### Label Elements

- **Hazard Pictogram** :



- **Signal word** : Warning
- **Hazard Statement** : Contact of product can cause cryogenic burns or injury
- **Precautionary statements**
  - **Prevention** : Wear cold insulating gloves / face shield / eye protection
  - **Response** : Thaw frosted parts with lukewarm water. Do not rub affected area
  - **Storage** : Get immediate medical advice / attention
  - **Storage** : Get immediate medical advice/attention.
  - **Storage** : Store in a well ventilated area

#### Other Hazard

**Other hazards** : Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite.  
: In high concentration may cause asphyxiation



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## Argon (Refrigerated)

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Preparation : Substance**

Substance Name	Contents	CAS No.	EC No.	Index No.	Classification
Argon (Refrigerated)	100%	7440-37-1	231-147-0	-----	

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

### 4 FIRST AID MEASURES

#### First Aid Measures

**- Inhalation**

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

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**

: Immediately flush eyes thoroughly with water for at least 15 minutes.

In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.

**- Ingestion**

: Ingestion is not considered a potential route of exposure.

### 5 FIRE FIGHTING MEASURES

**Flammable class** : Non flammable

**Specific hazards** : Exposure to fire may cause containers to rupture / explode

**Hazardous Combustion Products** : None

#### Extinguishing media

**- Suitable extinguishing media** : All known extinguishants can be used.

**Specific methods** : If possible stop flow of product.

Move away from the container and cool with water from a protected position. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.

**Special protective equipment for fire fighters** : In confined space use self-contained breathing apparatus



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### 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Evacuate area  
Use protective clothing  
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.  
Ensure adequate air ventilation.
- Environmental Precautions** : Try to stop release.  
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
- Clean up methods** : Ventilate area.

### 7 HANDLING AND STORAGE

- Storage** : Keep container below 50 degrees C in a well ventilated place.
- Handling** : Suck back of water into the container must be prevented  
Do not allow backfeed into the container.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Refer to supplier's container handling instructions.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Measures/Controls** : Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof – electrical, ventilating and/or lighting equipment.
- Personal Protective Equipment**
- Respiratory** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye/Face** : Wear safety glasses.
- Skin/Body** : Wear leather gloves when handling cylinders.
- Environmental Exposure Controls** : Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 degrees C	: Refrigerated liquefied gas.
Color	: Colorless liquid
Odor	: No odor warning properties
Molecular Weight	: 40
Melting point (degrees C)	: - 189
Boiling point (degrees C)	: - 186
Critical temperature (degrees C)	: - 122
Vapor pressure, 20 degrees C	: Not Applicable
Relative density, gas (air =1)	: 1.38
Relative density, liquid (water = 1)	: 1.4
Solubility in water [mg/l]	: 67
Flammability range [vol% in air]	: Non flammable
Other data	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### 10 STABILITY AND REACTIVITY

Stability and reactivity	: Stable under normal conditions. Liquid spillages can cause embrittlement of structural materials.
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### 11 TOXICOLOGICAL INFORMATION

Toxicity information	: No known toxicological effects from this product
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### 12 ECOLOGICAL INFORMATION

Ecological effects information	: Can cause frost damage to vegetation.
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### 13 DISPOSAL CONSIDERATIONS

General	: Do not discharge into any place where its accumulation could be dangerous Contact supplier if guidance is required.
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## Argon (Refrigerated)

### 14 TRANSPORT INFORMATION

UN No. : 1951  
H.I. nr : 22  
ADR / RID  
- Proper shipping name : ARGON, REFRIGERATED LIQUID  
- ADR Class : 2  
- ADR / RID Classification code : 3 A  
- Labelling ADR :



: 2.2: Non flammable, non toxic gas.

#### Other transport information

: 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 that containers are firmly secured.  
- Ensure cylinder valve is closed and not leaking.  
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.  
- Ensure valve protection device (where provided) is correctly fitted.  
- Ensure there is adequate ventilation.  
- Compliance with applicable regulations

### 15 REGULATORY INFORMATION

**EC Classification** : Not included in Annex I.  
Not classified as dangerous preparation / substance

**EC Labeling** : No EC labeling required.

- **Symbol (s)** : None

- **R Phrase (s)** : None

- **S Phrase (s)** : None



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### 16 OTHER INFORMATION

- Asphyxiant in high concentrations.
- Keep container in a well-ventilated place.
- Do not breathe the gas.
- May cause frostbite.
- Wear suitable protective clothing.
- Ensure all national / local regulations are observed.
- The hazard of asphyxiation is often overlooked and must be stressed during operator training.
- This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.
- Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
- Details given in this document are believed to be correct at the time of going to press. 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.

#### Recommended uses and restrictions:

This SDS is for information purposes only and is subject to change without prior notice. [Prior to purchase of products, please contact your local AIR LIQUIDE office for the latest SDS edition].

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