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Doc. No.: SDS <sup>-</sup> AL003B Page: Page 1 of 6

Page: Page 1 o Owner: SHEQ

Rev. Date:

September, 2022

## Argon (Liquid)





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

Trade name	: Argon (Liquid)
MSDS No.	:AL003B
Chemical Formula	: Ar
Company Identification	: Air Liquide Egypt
Main Offic	<ul> <li>e : Polyom Building - 2nd floor</li> <li>Area 22 - 1st Sector- Road 90 (Downtown)-5th</li> <li>Settlement-11835 New Cairo-Cairo</li> </ul>
Phone No. FAX	: +20 2 23221100 : : +20 2 25213100

#### **2 HAZARDS IDENTIFICATION**

#### **Classification of the substance**

- Physical Hazard
- Health Hazard

#### Label Elements

Hazard Pictogram

- Signal word
- Hazard Statement
- Precautionary statements
  - Prevention
  - o Response

- : Gases under pressure Refrigerated liquefied gas
- : no acute toxicity



- : Warning
- : Contact of product can cause cryogenic burns or injury
- : Wear cold insulating gloves / face shield / eye protection : Thaw frosted parts with lukewarm water. Do not rub affected area



Doc. No.: SDS - AL003B Page:

Page 2 of 6

SHEQ Owner:

Rev. Date: September, 2022

# Argon (Liquid)

2 HAZARDS IDENTIFICATION (continued)			
<ul> <li>Storage</li> </ul>	: Get immediate medical advice/attention. : 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		
3 COMPOSITION / INFORMATION ON INGREDIENTS			
Substance / Preparation	: Substance		
Substance Name Conte Argon (Refrigerated) 100%	ts CAS No. EC No. Index No. Classification 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.
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	a sterile
dressing. Obtain me	edical assista	ance.				

- Ingestion	: Ingestion is not considered a potential route of exposure.
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5 FIRE FIGHTING MEASURES		
Flammable class	: Non flammable	
Specific hazards	: Exposure to fire may cause containers to rupture / explode	
Hazardous Combustion Products	: None	

- Skin /



Doc. No.: SDS - AL003B Page:

Page 3 of 6 Owner: SHEQ

Rev. Date: September, 2022

# Argon (Liquid)

5 FIRE FIGHTING MEASURES (continue	ed)			
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			
ACCIDENTAL RELEASE MEASURES	ACCIDENTAL RELEASE MEASURES			
Personal precautions	: Evacuate area Use protective clothing Wear self-contained breathing apparatus when entering are 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.			
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 thi product, its supply pressure and temperature. Contact your ga supplier if in doubt.			
	Refer to supplier's container handling instructions.			
3 EXPOSURE CONTROLS / PERSONAL	EXPOSURE CONTROLS / PERSONAL PROTECTION			
Personal protection	: Ensure adequate ventilation.			

Protect eyes, face and skin from liquid splashes.



Doc. No.: SDS - AL003B

Page 4 of 6

Owner: SHEQ

Rev. Date: S

Page:

September, 2022

# Argon (Liquid)

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 degrees C	: Refrigerated liquefied gas.
Colour	: Colourless liquid
Odo(u)r	: No odor warning properties
Molecular Weight	: 40
Melting point (degrees C)	: - 189
Boiling point (degrees C)	: - 186
Critical temperature (degrees C)	: - 122
Vapour 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/vapour 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.

## **11 TOXICOLOGICAL INFORMATION**

Toxicity information	: No known toxicological effects from this product

#### **12 ECOLOGICAL INFORMATION**

**Ecological effects information** 

: Can cause frost damage to vegetation.

## 13 DISPOSAL CONSIDERATIONS

General

: Do not discharge into any place where its accumulation could be dangerous Contact supplier if guidance is required.



Doc. No.: SDS - AL003B

Page: Page 5 of 6

Owner: SHEQ

Rev. Date:

September, 2022

# Argon (Liquid)

14 TRANSPORT INFORMATION	
UN No. H.I. nr ADR / RID - Proper shipping name - ADR Class - ADR / RID Classification code - Labelling ADR	: 1951 : 22 : ARGON, REFRIGERATED LIQUID : 2 : 3 A :
	: 2.2: Non flammable, non toxic gas.
Other transport information	<ul> <li>: Avoid transport on vehicles where the load space is not separated from the driver's compartment</li> <li>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.</li> <li>Before transporting product containers: <ul> <li>Ensure that containers are firmly secured.</li> <li>Ensure cylinder valve is closed and not leaking.</li> <li>Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> <li>Ensure valve protection device (where provided) is correctly fitted.</li> <li>Ensure there is adequate ventilation.</li> <li>Compliance with applicable regulations</li> </ul> </li> </ul>
15 REGULATORY INFORMATION	
EC Classification	: Not included in Annex I. Not classified as dangerous preparation / substance
EC Labeling - Symbol (s)	: No EC labeling required. : None

: None

: None

- R Phrase (s)
- S Phrase (s)
- Air Liquide Egypt



Doc. No.: SDS - AL003B

Page: Page 6 of 6

Owner: SHEQ

Rev. Date: Se

September, 2022

## Argon (Liquid)

## **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 Material 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 MSDS 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 complete MSDS (with Manufacturer's name and emergency phone number)].

Air Liquide Egypt

End of Document