

**ARGON, REFRIGERATED LIQUID (Ar)****AL065**

Label 2.2 : Non flammable, non toxic gas.

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

**Trade name** : ARGON, REFRIGERATED LIQUID (Ar)  
**MSDS Nr** : AL065  
**Use** : Industrial applications.  
**Chemical formula** : Ar  
**Company identification** : Air Liquide Australia Limited  
Level 9 / 380 St. Kilda Road  
Melbourne VIC 3004 Australia  
Tel: + 61 3 9697 9888  
Fax: + 61 3 9690 7107  
ALAEquiries@AirLiquide.com  
**Emergency phone nr** : 1800 812 588

**2 HAZARDS IDENTIFICATION**

**Hazard classification** : Not classified as hazardous according to NOHSC criteria.  
Classified as a dangerous good by the criteria of the ADG code.  
**Hazards identification** : Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite.  
In high concentrations may cause asphyxiation.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance / Preparation** : Substance.

Substance name	Contents	CAS No	EC No	Annex 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**

**Specific hazards** : Exposure to fire may cause containers to rupture/explode.  
**Hazardous combustion products** : None.

**ARGON, REFRIGERATED LIQUID (Ar)****AL065****5 FIRE-FIGHTING MEASURES (continued)****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.**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°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****Personal protection**: Ensure adequate ventilation.  
Protect eyes, face and skin from liquid splashes.**9 PHYSICAL AND CHEMICAL PROPERTIES****Physical state at 20 °C**

: Gas.

**Colour**

: Colourless.

**Odour**

: No odour warning properties.

**Molecular weight**

: 40

**Melting point [°C]**

: -189

**Boiling point [°C]**

: -186

**Critical temperature [°C]**

: -122

**Vapour pressure [20°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.

**ARGON, REFRIGERATED LIQUID (Ar)****AL065****10 STABILITY AND REACTIVITY**

- Stability and reactivity** : Stable under normal conditions.  
Liquid spillages can cause embrittlement of structural materials.
- Hazardous decomposition products** : None.

**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.

**14 TRANSPORT INFORMATION**

**UN No.** : 1951

• **Labelling ADG, IMDG, IATA**



: Label 2.2 : Non flammable, non toxic gas.

**Land transport**

**H.I. nr** : 22

**Proper shipping name** : ARGON, REFRIGERATED LIQUID

**HAZCHEM - Emergency Action Code** : 2T

: 2 = Fine water spray.

T = Recommended personal protective equipment : Full fire kit and breathing apparatus.

Appropriate measures : dilute.

- **ADG Class** : 2

- **ADG Classification code** : 3 A

- **Packing Instruction(s) - General** : P203

**Sea transport**

- **IMO-IMDG code**

• **Proper shipping name** : ARGON, REFRIGERATED LIQUID

• **Class** : 2.2

- **IMO Packing group** : P203

- **Emergency Schedule (EmS) - Fire** : F-C

- **Emergency Schedule (EmS) - Spillage** : S-V

- **Instructions - Packing** : P203

**Air transport**

- **ICAO/IATA**

- **Proper shipping name** : ARGON, REFRIGERATED LIQUID

• **Class** : 2.2

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## 14 TRANSPORT INFORMATION (continued)

- **Passenger and Cargo Aircraft** : Allowed.
- **Packing instruction** : 202
- **Cargo Aircraft only** : Allowed.
- **Packing instruction** : 202
- 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 classified as dangerous preparation/substance.  
Not included in Annex I.
- EC Labelling** : No EC labelling required.
- Symbol(s)** : None.
- R Phrase(s)** : None.
- S Phrase(s)** : None.

## 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.

**DISCLAIMER OF LIABILITY** : 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.

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