

SAFETY DATA SHEET

Doc. No.: SDS – 001A (4)
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 Owner: Safety & Quality
 Rev. Date: July 11, 2016

Argon

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Trade name : Argon
 SDS No. : 001A
 Chemical Formula : Ar
 Company Identification : Air Liquide Philippines Inc.
 Main Office : 12F Ecotower, 32nd St. cor. 9th 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 - compressed gas
- Health Hazard : no acute toxicity

Label Elements

- Hazard Pictogram



- Signal word : Warning
- Hazard Statement : Contains gas under pressure - may explode if heated
- Precautionary statement : Store in a well ventilated place

Other Hazard : In high concentration may cause asphyxiation

3 COMPOSITION / INFORMATION ON INGREDIENTS

| Substance / Preparation | | : Substance | | | |
|-------------------------|----------|-------------|-----------|-----------|----------------|
| Substance Name | Contents | CAS No. | EC No. | Index No. | Classification |
| Argon | 100% | 7440-37-1 | 231-147-0 | ----- | |

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



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4 FIRST AID MEASURES

First Aid Measures

- Inhalation

: In high concentration 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.

- 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 Product

: 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.

Special protective equipment

: In confined space use self-contained breathing apparatus

For fire fighters

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

: Evacuate area

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.



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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

- Appropriate engineering controls** : Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxygen detectors should be used when asphyxiating gases may be releases. Consider work permit system e.g. for maintenance activities.
- Hand protection** : Wear working gloves when handling gas containers.
- Eye Protection** : Wear safety glasses with side shields.
- Skin and body protection** : Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing.
- Respiratory protection** : None necessary during normal and routine operations.
- Thermal hazard protection** : None necessary during normal and routine operations.
- Environmental exposure controls** : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods of waste gas treatment
- Other information** : Wear safety shoes while handling containers.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 degrees C** : Compressed gas
- Color** : Colorless
- Odor** : No odor warning properties
- Molecular Weight** : 40
- Melting point (degrees C)** : -189
- Boiling point (degrees C)** : -186
- Critical temperature (degrees C)** : -122

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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--------------------------------------|---|
| Vapor pressure, 20 degrees C | : Not Applicable |
| Relative density, gas (air =1) | : 1.38 |
| Relative density, liquid (water = 1) | : Not applicable |
| Solubility in water [mg/l] | : 61 |
| 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. |
|--------------------------|-----------------------------------|

11 TOXICOLOGICAL INFORMATION

| | |
|----------------------|--|
| Toxicity information | : No known toxicological effects from this product |
|----------------------|--|

12 ECOLOGICAL INFORMATION

| | |
|--------------------------------|---|
| Ecological effects information | : No known ecological damage caused by this product |
|--------------------------------|---|

13 DISPOSAL CONSIDERATIONS

| | |
|---------|--|
| General | : Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Contact supplier if guidance is required. |
|---------|--|

14 TRANSPORT INFORMATION

| | |
|------------------------|---------------------|
| UN No. | : 1006 |
| H.I. nr | : 20 |
| ADR / RID | |
| - Proper shipping name | : Argon, Compressed |
| - ADR Class | : 2 |

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14 TRANSPORT INFORMATION (continued)

- ADR / RID Classification code : 1A
- Labelling ADR :



Label 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

16 OTHER INFORMATION

- Asphyxiant in high concentrations.
- Keep container in a well – ventilated place.



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16 OTHER INFORMATION (continued)

- Do not breathe the gas.
- 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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