

# MATERIAL SAFETY DATA SHEET

Revised edition no : 1

Date : 31/ 01/ 2012

Supersedes : 0 / 0 / 0

## ARGON BASED COMPRESSED GAS MIXTURES AL615

Label 2.2 : Non

flammable, non toxic gas

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

**Trade name** : ARGON BASED COMPRESSED GAS MIXTURES

**MSDS Nr** : AL615

**Use** : Incubator atmosphere.

**Company identificatio** : Agas National  
PO BOX 1087, Sunnybank Hills, 4109, QLD

**Emergency phone nr** : 07 3282 5783

### 2 HAZARDS IDENTIFICATION

**Hazard classificatio** : Not classified as hazardous according to NOHSC criteria.

Classified as a dangerous good by the criteria of the ADG code.

**Hazards identificatio** : In high concentrations may cause asphyxiation.

Compressed gas.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Preparation** : Preparation.

**Components** : This product is not hazardous but contains hazardous components.

**Substance name Contents CAS No EC No Annex No Classificatio**

**Carbon dioxide** : Between 6.3 and 7.7 % 124-38-9 204-696-9 -----

**Oxygen** : Between and 10 7782-44-7 231-956-9 008-001-00-8 O; R8

**Helium** : Between and 50 7440-59-7 231-168-5 -----

**Argon** : Between 51 and 100 7440-37-1 231-147-0 -----

**Hydrogen** : Between and 3.5 1333-74-0 215-605-7 001-001-00-9 F+; R12

**Carbon dioxide** : Between and 30 124-38-9 204-696-9 -----

### 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 respiratio if breathing stopped.

- **Ingestion** : Ingestion is not considered a potential route of exposure.

### 5 FIRE-FIGHTING MEASURES

**Flammable class** : Non flammable

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

**Hazardous combustion products** : None.

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

**Specific method** : If possible, stop flow of product. Move away from the container and cool with water from a protected position.

**Special protective equipment for fir** : In confined space use self-contained breathing apparatus. **fighter**

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Evacuate area.

Ensure adequate air ventilation.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

**Environmental precautions** : Try to stop release.

**Clean up methods** : Ventilate area.

### 7 HANDLING AND STORAGE

**Storage** : Keep container below 50°C in a well ventilated place.

**Handling** : Open valve slowly to avoid pressure shock.

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.

**Occupational Exposure Limits** : Carbon dioxide : ILV (EU) - 8 H - [mg/m<sup>3</sup>] : 9000

Carbon dioxide : ILV (EU) - 8 H - [ppm] : 5000

Carbon dioxide : TLV© -TWA [ppm] : 5000

Carbon dioxide : TLV© -STEL [ppm] : 30000

Carbon dioxide : ILV (EU) - 8 H - [mg/m<sup>3</sup>] : 9000

Carbon dioxide : ILV (EU) - 8 H - [ppm] : 5000

Carbon dioxide : TLV© -TWA [ppm] : 5000

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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION (continued).

#### Occupational Exposure Limits:

Carbon dioxide : TLV© -STEL [ppm] : 30000

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical state at 20 °C** : Compressed gas.

**Colour** : Colourless.

**Odour** : None.

**Relative density, gas (air=1)** : Lighter or similar to air.

**Solubility in water [mg/l]** : Not known.

### 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

**Effect on ozone layer** : None.

**Global warming potential [CO<sub>2</sub>=1]** : Contains greenhouse gas(es) not covered by 842/2006/EC

### 13 DISPOSAL CONSIDERATIONS

**General** : Do not discharge into any place where its accumulation could be dangerous.

Contact supplier if guidance is required.

**Disposal method** : Consult supplier for specific recommendations.

### 14 TRANSPORT INFORMATION

**UN No.** : 1956

**Labelling ADG** : Label 2.2 : Non flammable, non toxic gas.

**H.I. nr** : 20

**Proper shipping name** : COMPRESSED GAS, N.O.S.

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

: 2 = Fine water spray.

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

Appropriate measures : dilute.

E = There may be a public safety hazard outside the immediate area of the incident, and that the

following actions should be considered :

1. People should be warned to stay indoors with all doors and windows closed, preferably in rooms upstairs and facing away from the incident. Ignition sources should be eliminated and any

ventilation stopped.

2. Effects may spread beyond the immediate vicinity. all non-essential personnel should be

instructed to move at least 250 metres away from the incident.

3. Police and fire brigade incident commanders should consult each other and with a product

expert, or with a source of product expertise.

4. The possible need for subsequent evacuation should be considered, but it should be remembered that in most cases it will be safer to remain in a building than to evacuate.

**- ADG Class** : 2

**- ADG Classification cod** : 1 A

**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 Labelling** : Not classified as dangerous preparation substance.

**Symbol(s)** : None.

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

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

**Agas National In case of emergency** : 07 3103 0667

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## **16 OTHER INFORMATION**

Asphyxiant in high concentrations.

Keep container in a well-ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Receptacle under pressure.

Ensure all national/local regulations are observed.

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.

**End of document**

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