

# MATERIAL SAFETY DATA

## SHEET Revised edition no : 1

Date : 31 / 01 / 2012

Supersedes : 31 / 01 / 2010

## Helium AL071

Label 2.2 : Non

flammable, non toxic gas

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

**Trade name** : Helium

**MSDS Nr** : AL071

**Use** : Balloon gas. Deep diving applications. Gas chromatography. Industrial applications. Laser applications. Shielding gas for welding.

**Chemical formula** : He

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

**Emergency phone number** : 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** : Compressed gas.  
In high concentrations may cause asphyxiation.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Preparation** : Substance.

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

Helium : 100 % 7440-59-7 231-168-5 ----

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

### 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 i breathing stopped.

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

### 5 FIRE-FIGHTING MEASURES

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

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

### 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.

**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.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical state at 20 °C** : Gas.

**Colour** : Colourless.

**Odour** : No odour warning properties.

**Molecular weight** : 4

**Melting point [°C]** : Not applicable.

**Boiling point [°C]** : -269

**Critical temperature [°C]** : -268

**Vapour pressure [20°C]** : Not applicable.

**Relative density, gas (air=1)** : 0.14

**Relative density, liquid (water=1)** : Not applicable.

**Solubility in water [mg/l]** : 1.5

**Flammability range [vol% in air]** : Non flammable

### 10 STABILITY AND REACTIVITY

**Stability and reactivity** : Stable under normal conditions.

### 11 TOXICOLOGICAL INFORMATION

**Toxicity information** : No known toxicological effects from this product.

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### 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.** : 1046

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

**H.I. nr** : 20

**Proper shipping name** : HELIUM, COMPRESSED

**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 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 Classificatio** : Not included in Annex I.

Not classified as dangerous preparation/substance

**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.

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** : 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.

Details given in this document are believed to be correct at the time of going to press. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

**End of document**

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