

MATERIAL SAFETY DATA

SHEET Revised edition no : 1

Date : 31 / 01 / 2010

Supersedes : 0 / 0 / 0

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 identification : Agas National
PO BOX 1087, Sunnybank Hills, 4109, QLD

Emergency phone number : 07 3103 0667

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 : 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 Classification

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

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.

- **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.

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 for fire fighters : 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 code : 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 Classification : 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.

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