

Helium (He)**50001**

Label 2.2 : Non flammable, non toxic gas.

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

Trade name : Helium (He)
MSDS Nr : 50001
Use : Calibration.
Chemical formula : He
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 : 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.



MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 1

Date : 17 / 8 / 2010

Supersedes : 0 / 0 / 0

Helium (He)

50001

5 FIRE-FIGHTING MEASURES (continued)

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.

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

Hazardous decomposition products : None.

Stability : Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No known toxicological effects from this product.

Helium (He)
50001
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, IMDG, IATA


: Label 2.2 : Non flammable, non toxic gas.

Land transport
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

- Packing Instruction(s) - General : P200

Sea transport
- IMO-IMDG code
• Proper shipping name : HELIUM, COMPRESSED

• Class : 2.2

- IMO Packing group : P200

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

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

- Instructions - Packing : P200

Air transport
- ICAO/IATA
- Proper shipping name : HELIUM, COMPRESSED

• Class : 2.2

• Passenger and Cargo Aircraft : Allowed.

- Packing instruction : 200

• Cargo Aircraft only : Allowed.

- Packing instruction : 200

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.



MATERIAL SAFETY DATA SHEET

Page : 4

Revised edition no : 1

Date : 17 / 8 / 2010

Supersedes : 0 / 0 / 0

Helium (He)**50001**

14 TRANSPORT INFORMATION (continued)

- 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 : 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. 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