

Helium (Compressed Gas)

HELIUM



WARNING
GAS UNDER PRESSURE
May explode if heated



Label 2.2 : Non flammable, non toxic gas.

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

Trade name	: Helium
MSDS No.	: AL005A
Chemical Formula	: HE
Company Identification	: Air Liquide Egypt.
Main Office	: Polyom Building - 2nd floor Area 22 - 1st Sector- Road 90 (Downtown)-5th Settlement- 11835 New Cairo-Cairo
Phone No.	: +20 2 23221100
FAX	: +20 2 25213100

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



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3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation		: Substance			
Substance Name	Contents	CAS No.	EC No.	Index 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.

5 FIRE FIGHTING MEASURES

Flammable class	: Non flammable
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 Use protective clothing Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
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Helium (Compressed Gas)**6 ACCIDENTAL RELEASE MEASURES (continued)**

Environmental Precautions : Try to stop release.
Clean up methods : Ventilate area.

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

Personal protection : Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 degrees C : Compressed gas
Color : Colorless gas
Odor : No odor warning properties
Molecular Weight : 28
Melting point (degrees C) : -272
Boiling point (degrees C) : -269
Critical temperature (degrees C) : -268
Critical temperature (degrees C) : -268
Vapor pressure, 20 degrees C : Not Applicable
Relative density, gas (air =1) : 0.14

Helium (Compressed Gas)**9 PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Relative density, liquid (water = 1) : Not Applicable

Solubility in water [mg/l] : 1.5

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. : 1046
H.I. nr : 20
ADR / RID
- Proper shipping name : Helium, Compressed :
- ADR Class : 2
- ADR / RID Classification code : 1 A
- Labeling ADR :



: 2.2: Non flammable, non toxic gas.

Helium (Compressed Gas)**14 TRANSPORT INFORMATION (continued)****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.
- 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 Material 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.



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16 OTHER INFORMATION (continued)

Recommended uses and restrictions:

This MSDS 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 complete MSDS (with Manufacturer's name and emergency phone number)].

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