

## SAFETY DATA SHEET

**1 Identification of the substance or preparation and of the company/undertaking**

## 1.1 Product identifier

Product Name: HELIUM  
Datasheet Number: HE-r 1. 0. 0  
Product Part Number: 905618 (40 liter)  
Head Office:: Wilhelmsen Ships Service AS  
Address: Strandveien 20, N1324 Lysaker, Norway Tel:(+47) 67 58 45 50

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Compressed gas

## 1.3 Details of the supplier of the safety data sheet

Name of Supplier: Wilhelmsen Ships Service AS  
Address of Supplier: Willem Barentszstraat 50  
3165AB Rotterdam  
The Netherlands  
Telephone: +31 10 4877 777  
Fax: +31 10 4877 888  
Responsible Person: Patrick Rijdsdijk, Product HSE Manager, Tel.:+31 6 349 440 35  
Email: patrick.rijdsdijk@wilhelmsen.com

## 1.4 Emergency telephone number

**\*\*ONL TO BE USED IN CASE OF AN INCIDENT\*\***

NCEC: +44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777

Australia: +61 3 9630 0998

**2 Hazards identification**

## 2.1 Classification of the substance or mixture

- The product is not classified as hazardous according to directive 1999/45/EEC
- Not hazardous according to current The Dangerous Substances Directive (67/548/EEC)

## 2.2 Label elements



- Pressurized container

## Risk Phrases

- Not applicable

## Safety Phrases

- Keep container in a well ventilated place (S9)

## HELIUM

### 2 Hazards identification (....)

#### 2.3 Other hazards

- Odour: Odourless
- Appearance: Compressed gas
- Inhalation: In cases of severe exposure, shortness of breath may develop

### 3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases	Symbols
Helium (compressed)	>99	7440-59-7	231-168-5	-	-

### 4 First aid measures

#### 4.1 Description of first aid measures

- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Rescuers should put on approved respiratory protection before entering the area to render first aid
- Apply artificial respiration only if patient is not breathing
- When in doubt or symptoms persist, seek medical attention
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#### 4.2 Most important symptoms and effects, both acute and delayed

- Aspiration hazard
- In cases of severe exposure, anaesthesia may develop

#### 4.3 Indication of immediate medical attention and special treatment needed

### 5 Fire-fighting measures

#### 5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

#### 5.2 Special hazards arising from the substance or mixture

- Pressurized container
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders

#### 5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders

### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Shut off source of leak if safe to do so
- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus

## HELIUM

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### 6 Accidental release measures (....)

#### 6.2 Environmental Precautions

- No special precautions are required for this product

#### 6.3 Methods and material for containment and cleaning up

- Shut off source of leak if safe to do so
- Allow product to evaporate
- Ventilate area

#### 6.4 Reference to other sections

- None
- 

### 7 Handling and storage

#### 7.1 Precautions for safe handling

- Ensure adequate ventilation

#### 7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C

#### 7.3 Specific end use(s)

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### 8 Exposure controls/personal protection

#### 8.1 Control parameters

- No exposure limits have been set for this substance

#### 8.2 Exposure controls

- No special requirements

##### Occupational exposure controls

- In poorly ventilated areas or confined spaces, use an airline respirator or self-contained breathing apparatus
- Wear safety boots when handling cylinders.



Boots



No Smoking

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### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- Odour: Odourless
  - Appearance: Compressed gas
  - pH - not applicable
  - Boiling point - 269 °C at 760 mm /Hg
  - Vapour pressure - not known
  - Vapour density (air = 1) 0.14
  - Melting point - 272 °C at 760 mm /Hg
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### 9 Physical and chemical properties (....)

- Insoluble in water
- Not flammable

#### 9.2 Other information

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### 10 Stability and reactivity

#### 10.1 Reactivity

- This article is considered stable under normal conditions

#### 10.2 Chemical stability

- Considered stable under normal conditions

#### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

#### 10.4 Conditions to avoid

- Avoid overheating

#### 10.5 Incompatible materials

- None

#### 10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
- 

### 11 Toxicological information

#### 11.1 Information on toxicological effects

- Non-toxic

##### Inhalation

- Asphyxiant
- Can cause damage to the lungs

##### Contact with skin

- Not applicable

##### Contact with eyes

- Not hazardous

##### Ingestion

- Not regarded as a potential route of exposure.

##### Carcinogenicity

- No evidence of carcinogenic effects
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### 12 Ecological information

#### 12.1 Toxicity

- On available data, substance is not harmful to aquatic life

#### 12.2 Persistence and degradability

- No information available
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## HELIUM

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### 12 Ecological information (...)

#### 12.3 Bioaccumulation Potential

- Bioaccumulation is insignificant

#### 12.4 Mobility in soil

- This substance is volatile
- Insoluble in water

#### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

#### 12.6 Other Adverse Effects

- Presents no hazard to the environment
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### 13 Disposal considerations

#### 13.1 Waste treatment methods

- Uncontaminated material may be returnable. Contact supplier
  - Disposal should be in accordance with local, state or national legislation
  - No special precautions are required for this product
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### 14 Transport information



Non-Flammable Compressed Gas

#### 14.1 UN Number

- UN1046

#### 14.2 UN Proper Shipping Name

- HELIUM, COMPRESSED

#### 14.3 Transport hazard class(es)

- 2.2

#### 14.4 Packing group

- n/a

#### 14.5 Environmental hazards

- Presents no hazard to the environment

#### 14.6 Special precautions for user

- Gas cylinders must be equipped with valve protection caps during transport.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

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### 14 Transport information (....)

#### Road/Rail (ADR/RID)

Proper Shipping Name:	HELIUM, COMPRESSED		
ADR UN No.:	UN1046	ADR Hazard Class:	2.2
ADR Packing Group:	n/a	ADR subrisk:	n/a
ADR Flashpoint:	n/a		

#### Sea (IMDG)

Proper Shipping Name:	HELIUM, COMPRESSED		
IMDG UN No.:	UN1046	IMDG Hazard Class.:	2.2
IMDG Pack Group.:	n/a	IMDG EmS:	F-C, S-V
IMDG subrisk:	n/a	IMDG Flashpoint:	n/a

#### Air (ICAO/IATA)

Proper Shipping Name:	HELIUM, COMPRESSED		
ICAO Un No.:	UN1046	ICAO Hazard Class.:	2.2
ICAO Packing Group.:	n/a	ICAO subrisk:	n/a
ICAO Flashpoint:	n/a		

#### DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	HELIUM, COMPRESSED		
Hazardous Material:	HELIUM		
Hazard Class:	2.2	Identification Number:	UN1046
Product RQ (lbs):	n/a	DOT subrisk:	n/a
DOT Flashpoint:	n/a		

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### 15 Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- This product is not classified as hazardous according to Directive 1999/45/EEC
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

#### 15.2 Chemical Safety Assessment

NONE

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### 16 Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

**16 Other information (....)**

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

**OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES**

For addresses of other Wilhelmsen Ships Service offices, please refer to [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourne, Vic 3205 Australian Tel:+61 3 9630 0900  
Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone  
daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States  
Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania  
United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

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daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

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