

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 02.05.2011

Revision 02.05.2011 (GB) Version 6.0

Helium

1530 - 1532

! 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product	Helium Art-Nr.: 1530 - 1532
Name of substance	Helium
EC No	231-168-5
CAS No	7440-59-7

Manufacturer/distributor

GHC Gerling, Holz & Co. Handels GmbH
Ruhrstraße 113, D-22761 Hamburg
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Advice

Phone +49 (0) 40 853 123-0
Fax +49 (0) 40 853 123-66

Emergency advice

GHC Gerling, Holz & Co. Handels GmbH
Phone +49 (0) 40 853 123-0

Identified uses

Remark

It is not required to list the identified uses because the substance is exempted from the obligation to register according to REACH [Article 2(7)(a) in conjunction with Annex IV of the REACH-Regulation (EC) 1907/2006].

! Recommended intended purpose(s)

Propellant.
Cover gas.
Balloon gas.
Processing aid.

2. Hazards identification

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Compr. Gas	H280
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Hazard statements for physical hazards

H280	Contains gas under pressure; may explode if heated.
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Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS04

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Signal word

Warning

Hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

Storage

P403 Store in a well-ventilated place.

Adverse human health effects and symptoms

Asphyxiant in high concentrations.

3. Composition/information on ingredients

CAS No 7440-59-7

Helium

EC No 231-168-5

4. First aid measures

General information

Adhere to personal protective measures when giving first aid.

In case of inhalation

Remove the casualty into fresh air, keep warm and allow to rest.

Seek medical treatment immediately.

In case of respiratory standstill give artificial respiration by respiratory bag (Ambu bag) or respirator. Send for a doctor.

In case of skin contact

No special measure necessary.

In case of ingestion

Ingestion is not considered a potential route of exposure.

5. Firefighting measures

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Additional information

Cool endangered containers with water spray jet.

6. Accidental release measures

Personal precautions

See chapter 8.

Remove persons to safety.

Environmental precautions

If possible, stop flow of product.

Methods for cleaning up

Ensure adequate air ventilation.

Additional Information

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

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7. Handling and storage

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Prevent cylinders from falling over.

Ensure valve protection device is correctly fitted.

Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

Open valve slowly to avoid pressure shock.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.

Do not allow backfeed into the container.

Suck back of water into the container must be prevented.

No water to valves, flanges and other fittings.

Purging of pipes and valves with inert gases - to avoid: water, solvents.

Requirements for storage rooms and vessels

Use transportable pressure equipment.

Suitable materials: Normalised steel and carbon steel, tempered steel, aluminium alloys, stainless steel.

Valve: Suitable materials: Brass, copper alloys, carbon steels, aluminium alloys, stainless steel.

Advice on storage compatibility

Do not store together with combustible liquids or combustible solids.

Do not store together with feedstuff.

Do not store together with explosives.

Do not store together with infectious substances.

Do not store together with radioactive material.

Do not store together with toxic liquids or toxic solids.

Do not store together with food.

Do not store together with oxidizing liquids or oxidizing solids.

Further information on storage conditions

Ensure valve protection device is correctly fitted.

Store only in original container at temperature of 50°C maximum (=122°F).

Prevent cylinders from falling over.

Keep container in a well-ventilated place

8. Exposure controls/personal protection

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Keep self contained breathing apparatus readily available for emergency use.

In case of rescue and maintenance activities in storage containers use environment-independent breathing apparatus because of risk of suffocation by edging out of air oxygen

Hand protection

Leather gloves

Eye protection

safety goggles

Skin protection

Safety shoes with steel toe.

Hygiene measures

At work do not eat, drink and smoke.

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9. Physical and chemical properties

Form compressed gas	Colour colourless	Odour odourless
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Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
boiling point	-269 °C				
melting point	-272 °C				under pressure
Flash point	no				
Density	not applicable				liquid phase
Rel. vapour density	0,14				air = 1
Solubility in water	1,5 mg/l	20 °C			
Oxidizing properties	no				
Explosive properties	no				

10. Stability and reactivity

Conditions to avoid

Heat sources / heat.

Hazardous decomposition products

No hazardous decomposition products known.

Additional information

Stable under normal conditions.

11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	non-irritant			
Irritability eye	non-irritant			

Additional information

No known toxicological effects from this product.

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12. Ecological information

General regulation

No known ecological damage caused by this product.

13. Disposal considerations

Waste code No.

16 05 05

Name of waste

gases in pressure containers other than those mentioned in 16 05 04

Recommendations for packaging

Transportable pressure equipment (empty, residual pressure): Return to supplier / manufacturer.

14. Transport information

Land and inland navigation transport ADR/RID

UN 1046 HELIUM, COMPRESSED, 2.2, (E), Classification code: 1A

Marine transport IMDG

UN 1046 HELIUM, COMPRESSED, 2.2

EmS: F-C, S-V

Air transport ICAO/IATA-DGR

UN 1046 Helium, compressed, 2.2

15. Regulatory information

Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

16. Other information

Recommendend uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

All declarations of safety-data-sheet refer to pure substance.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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