

Helium (type test leak)

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 Version
 3.0 (en)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designationHelium (type test leak)EC No.231-168-5CAS No.7440-59-7

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

Use of the substance/mixture test gas

1.3 Details of the supplier of the safety data sheet

Supplier

INFICON GmbH Bonner Straße 498 D-50968 Köln Telephone +49(0)221- 56788-0 Telefax: +49(0)221- 56788-90 E-mail leakdetection@inficon.com

Department responsible for information: Entwicklung / Konstruktion (RESEARCH / DESIGN) Telephone +49(0)221- 56788-354 Website www.inficon.com

1.4 Emergency telephone number

Giftinformationszentrale Bonn +49(0)228 - 19 240 (Advice in German and English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Press. Gas (Comp.), H280

hazard statements for physical hazards H280 Contains gas under pressure; may explode if heated. Hazard pictograms



2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word Warning

Hazard statements

H280 Contains gas under pressure; may explode if heated.



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Precautionary statements

P102 Keep out of reach of children.

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

Substance name	Helium
EC No.	231-168-5
CAS No.	7440-59-7

3.2 Mixtures

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In high concentrations may cause asphyxiation. Remove aggrieved persons from danger zone In the event of symptoms refer for medical treatment. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

not relevant

After eye contact not relevant

Following ingestion

Ingestion is not considered a possible route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Dyspnoea

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself does not burn, adjust fire extinguishing measures to the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Exposure to fire may cause containers to rupture / explode.

5.3 Advice for firefighters

Special protective equipment for firefighters In case of fire: Wear self-contained breathing apparatus. Use protective equipment.

Additional information

Heat action leads to pressure increase - risk of bursting If possible stop gas leakage Do not inhale explosion and combustion gases. Remove the endangered containers or spray them with cold water

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid skin and eye contact Use personal protection equipment.

For emergency responders

Personal protection equipment Ensure adequate ventilation. Remove persons to safety. Keep away unprotected persons.

6.2 Environmental precautions

Prevent further leakage or spilling if this can be done safely.

6.3 Methods and material for containment and cleaning up

For cleaning up Provide adequate ventilation. Leave to vapourize.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage



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7.1 Precautions for safe handling

Protective measures

Product is not inflammable Use only in well-ventilated areas. Do not inhale gases. Ein Ventilschutzring sollte vorhanden sein oder die Ventilschutzkappe angebracht werden. Take the usual precautions when handling with chemicals.

Advices on general occupational hygiene

When using do not eat, drink, smoke. Remove contaminated, saturated clothing immediately. Work in rooms with good ventilation. Wash hands before breaks and after work. Please observe work hygiene regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Protect from moisture, heat and direct sunlight. Avoid heating to over 50 °C. Ein Ventilschutzring sollte vorhanden sein oder die Ventilschutzkappe angebracht werden.

Storage class

2A Gases (except aerosol dispensers and lighters)

Further information on storage conditions Keep away from foods and beverages.

7.3 Specific end use(s)

Recommendation See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure For good space ventilation provide, if necessary exhaust on the job. Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection

Safety goggles (DIN EN 166)

Hand protection

Protective gloves (DIN EN 388) cold resistant The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The selection of a suitable glove depends from manufacturer to manufacturer not only on the material, but also on further quality criteria.



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Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at: insufficient ventilation insufficient exhaust prolonged exposure high concentrations Suitable respiratory protection apparatus: Container device with compressed air (EN 137)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

compressed gas

Colour

colourless

Odour

odourless

Safety relevant basis data

•			
	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point -272.15 °C		
Boiling point or initial boiling point and boiling range	-269 °C		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
рН	not determined		
Viscosity	dynamic 0.025 mPa*s		
Solubility(ies)	Water solubility 2.5 mg/L (21°C)		
Partition coefficient n- octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	Relative density 0.138 (0°C)		
Relative vapour density	not determined		
particle characteristics	not determined		



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9.2 Other information

Other information none

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is considered non-reactive under normal conditions of use.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

strong heating

10.5 Incompatible materials

None if used as intended. Keep away from food and drink.

10.6 Hazardous decomposition products

No risk of production of decomposition products when appropriately handled and stored.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

Assessment/classification

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Assessment/classification

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Assessment/classification

Based on available data, the classification criteria are not met.



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Sensitisation to the respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Skin sensitisation

Assessment/classification Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment/classification No data available

Overall Assessment on CMR properties

Based on available data, the classification criteria are not met.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Narcotic effects

Assessment/classification

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Assessment/classification

Based on available data, the classification criteria are not met.

Aspiration hazard

Assessment/classification Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No data available

Other information

Toxic effects of this gas are unknown. However, release of larger quantities may result in unconsciousness or death due to oxygen displacement from the atmosphere. Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite. Other hazardous properties may not be excluded.

The product is to be handled with the caution usual with chemicals.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		
No special environmental measu 12.2 Persistence and degradability Assessment/classification not persistent.			
12.3 Bioaccumulative potential Assessment/classification No indication of bioaccumulatior	n potential.		
12.4 Mobility in soil Assessment/classification No adsoption in soil or sediment			
12.5 Results of PBT and vPvB asse This substance does not meet th		REACH, annex XIII.	

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

No risk of ecological problems if properly handled and used



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
150104	motallia naakaging

150104	metallic packaging
160505	gases in pressure containers other than those mentioned in 16 05 04

Waste code packaging	Waste name
150104	metallic packaging

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Disposal in accordance with local regulations.

Remark

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	2037	2037	2037
14.2 UN proper shipping name	RECEPTACLES, SMALL, CONTAINING GAS	RECEPTACLES, SMALL, CONTAINING GAS	Receptacles, small, containing gas
14.3 Transport hazard class(es)	2	2.2	2.2
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No
14.7 Maritime transport in bul not applicable	k according to IMO Instrum	ents	
not applicable All transport carriers Ensure sufficient ventilation 24h EMERGENCY CONTA	n, adhere to applicable regula	ations.	utz Harder GmbH)
not applicable All transport carriers Ensure sufficient ventilation 24h EMERGENCY CONTA Land transport (ADR/RID)	n, adhere to applicable regula ACT (TRANSPORT) +49(0)17	ations.	utz Harder GmbH)
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not applicable All transport carriers Ensure sufficient ventilation 24h EMERGENCY CONTA Land transport (ADR/RID)	n, adhere to applicable regula ACT (TRANSPORT) +49(0)17	ations. 78 433 7434 (Consultank Lu	utz Harder GmbH)
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not applicable All transport carriers Ensure sufficient ventilation 24h EMERGENCY CONTA Land transport (ADR/RID) UN number or ID number UN proper shipping name	n, adhere to applicable regula ACT (TRANSPORT) +49(0)1 2037 RECEPTACLES, SMALL	ations. 78 433 7434 (Consultank Lu	utz Harder GmbH)
not applicable All transport carriers Ensure sufficient ventilation 24h EMERGENCY CONTA Land transport (ADR/RID) UN number or ID number UN proper shipping name Transport hazard class(es)	n, adhere to applicable regula ACT (TRANSPORT) +49(0)17 2037 RECEPTACLES, SMALL 2	ations. 78 433 7434 (Consultank Lu	utz Harder GmbH)
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Special Provisions191 303 327 344tunnel restriction codeE

Remark

According to ADR no dangerous goods by application of special provision 191

Sea transport (IMDG)

UN number or ID number	2037
UN proper shipping name	RECEPTACLES, SMALL, CONTAINING GAS
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EMS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	2037
UN proper shipping name	Receptacles, small, containing gas
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No

SECTION 15: Regulatory information

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

Other regulations (EU)

To follow:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2 Chemical Safety Assessment

National regulations

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

See overview table at www.euphrac.eu

Key literature references and sources for data

Data sheets of the sub-supplier.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] The product is to be produced on the basis of the available hazard data of the ingredients, as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008, classified.



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Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H280 Contains gas under pressure; may explode if heated.