



HELIUM

Safety Data Sheet

91/155 / EEC and "Registration, Evaluation, Authorization of Chemicals and Regulation on Restriction" (23.06.2017-30105 (Repeated) Official Gazette)
Date of issue:17 /12/2025 Version: 2.0

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

1.1. Product identifier

Product form : Substance
Substance name : HELIUM
EC-No. : 231-168-5
CAS-No. : 7440-59-7
Formula : He

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

Relevant identified uses : Test gas/Calibration gas,Purge gas, diluting gas, inerting gas,Purging,Shield gas for welding processes,Use for manufacture of electronic/photovoltaic components,Laboratory use,Industrial and professional. Perform risk assessment prior to use,Contact supplier for more information on uses.
Uses advised against : Do not inhale product on purpose because of the risk of asphyxiation.

1.3. Details of the supplier of the safety data sheet

KOYUNCU TİCARET A.Ş.
GEBZE 5 (KİMYA) İHTİSAS OSB GEBKİM OSB RECEP YAZICI CAD.NO:4
DİLOVASI
KOCAELİ - Türkiye
T +90 262 658 06 05
satis@koyuncutas.com - www.koyuncutas.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with 91/155/EEC and "Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" (Official Gazette 23.06.2017-30105 (Repeated)).

Gases under pressure : Compressed gas H280

Full text of H-statements: see section 16

2.2. Label elements

Classification in accordance with 91/155/EEC and "Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" (Official Gazette 23.06.2017-30105 (Repeated)).tag info

Hazard pictograms (SEA) :



GHS04

Signal word (SEA) : Warning
Hazard statements (SEA) : H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (SEA) : P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Child-resistant fastening : Not applicable
Tactile warning : Not applicable

2.3. Other hazards

Other hazards not contributing to the classification

Other hazards not contributing to the classification : Asphyxiant in high concentrations.



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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.
HELIUM	(CAS-No.) 7440-59-7 (EC-No.) 231-168-5	<=100	Press. Gas (Comp.), H280

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove the affected person to fresh air immediately. Ensure the person is breathing; if breathing has stopped, perform cardiopulmonary resuscitation (CPR). Keep the victim warm and at rest. Call a physician for advice if symptoms persist. Note: In high concentrations, helium may cause asphyxiation. Victim may not be aware of oxygen deficiency.
- First-aid measures after skin contact : In case of contact with cryogenic liquid helium, frostbite may occur. Rinse affected area with plenty of lukewarm water for at least 15 minutes. Do not rub the affected area. Apply a sterile dressing if necessary. Seek medical attention if frostbite is severe.
- First-aid measures after eye contact : If exposed to liquid helium, immediately flush eyes thoroughly with lukewarm water for at least 15 minutes. Seek medical attention for frostbite or irritation.
- First-aid measures after ingestion : Ingestion is not a relevant exposure route for helium gas. No first aid measures required.

4.2. Most important symptoms and effects, both acute and delayed

- Most important symptoms and effects, both acute and delayed : High concentrations of helium may cause asphyxiation. Symptoms may include dizziness, loss of mobility, unconsciousness, and in severe cases, death. Victims may not be aware of oxygen deficiency. Refer to section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment is symptomatic. No specific antidote exists. For frostbite or prolonged asphyxiation, seek professional medical assistance immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

- Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.
- Hazardous combustion products : None.

5.3. Advice for firefighters

- Specific methods : Evacuate personnel from the immediate area. Move containers away from the fire area if this can be done without risk. Stop the flow of product if it can be done safely. Cool exposed pressure vessels with water spray from a protected position until well after fire is out. Prevent fire-fighting water from entering drains, sewers or waterways.
- Special protective equipment for fire fighters : Firefighters should use self-contained breathing apparatus (SCBA) with full facepiece and positive pressure. Wear standard protective clothing for firefighters, such as: EN 469 – Protective clothing for fire fighters EN 659 – Protective gloves for fire fighters EN 137 – Self-contained breathing apparatus with full face mask Additional flame-resistant gear as required by local protocols.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop the release if it can be done safely. Evacuate personnel from the affected area. Ensure adequate ventilation before re-entry. Use self-contained breathing apparatus (SCBA) if the atmosphere is oxygen-deficient or unknown. Monitor oxygen levels with appropriate detectors when asphyxiant gases may be released. Wear suitable protective clothing and gloves. Follow the local emergency response plan. Keep upwind of the release.



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6.1.1. For non-emergency personnel

Do not enter the area until it has been confirmed safe. Avoid confined spaces where asphyxiation risk may be higher.

6.1.2. For emergency responders

Use SCBA and full protective clothing. Approach the incident from upwind. Stop the flow of product only if safe to do so.

6.2. Environmental precautions

Helium is an inert gas and does not pose chemical environmental hazards. Avoid release into confined spaces where oxygen deficiency may occur. Liquid helium contact may cause severe cold damage (frostbite) and embrittlement of structural materials; prevent uncontrolled contact with equipment.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up : Ventilate the area thoroughly. Allow gas to dissipate safely into the atmosphere; no special containment required for the gas itself. In case of cryogenic liquid release, absorb residual moisture carefully and protect equipment from cold embrittlement. Use non-sparking tools if handling liquid helium.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product : Handle in accordance with good industrial hygiene and safety practices. Only trained and authorized personnel should handle compressed gases. Consider installation of pressure relief devices in gas systems. Check the gas system for leaks before use. Do not smoke or use open flames in areas where gas is handled. Use only equipment specifically designed for helium, compatible with supply pressure and temperature. Avoid inhalation of gas; helium is an asphyxiant in high concentrations. Prevent release into confined work areas; provide adequate ventilation. Avoid backflow of water, acids, or alkalis into the cylinder.

Safe handling of the gas receptacle : Follow the supplier's cylinder handling instructions. Do not allow backflow into the cylinder. Protect cylinders from mechanical damage: do not drag, roll, slide, or drop. Use a suitable cylinder cart or trolley when moving cylinders. Keep valve protection caps in place until the cylinder is secured and ready for use. Do not attempt to repair or modify cylinder valves or safety devices; report damaged valves immediately to the supplier. Keep valve outlets clean and free from contaminants, especially oil and water. Replace valve caps or plugs immediately after disconnecting from equipment. Close cylinder valves after each use and when empty, even if still connected. Never transfer gases from one cylinder to another. Do not use direct flame or electrical heating to raise cylinder pressure. Do not remove or deface labels provided by the supplier. Open cylinder valves slowly to prevent pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities : Store cylinders upright and secured to prevent tipping. Keep cylinder valve guards or caps in place. Store in a well-ventilated area, away from sources of heat, ignition, or combustible materials. Avoid conditions that may encourage corrosion. Keep cylinders below 50 °C. Regularly inspect stored cylinders for damage, leakage, and general condition. Store away from incompatible substances (e.g., strong oxidizers are not a direct incompatibility for helium, but good practice is to segregate all gases).

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HELIUM (7440-59-7)	
DNEL/DMEL (additional information)	
Additional information	None available.
PNEC (additional information)	
Additional information	None available.

Additional information : No occupational exposure limits established for helium. Primary hazard is oxygen displacement/asphyxiation in confined spaces.

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate general and local exhaust ventilation. Use oxygen detectors in areas where helium may accumulate. Systems under pressure should be regularly inspected for leaks. Implement work permit systems for maintenance or confined space entry.



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Personal protective equipment	: Conduct a risk assessment in each work area to determine appropriate PPE. PPE should comply with relevant EN/ISO standards.
Hand protection	: Wear cryogenic/cold-insulating gloves when handling liquid helium or connections. (EN 511) Wear protective gloves when handling gas cylinders. (EN 388)
Eye protection	: Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications
Respiratory protection	: Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazard protection	: Additional thermal protection not required for gas handling, except for cryogenic contact.
Environmental exposure controls	: None necessary.
Other information	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas (at 20 °C and 101.3 kPa)
Molecular mass	: 4.0026 g/mol
Colour	: Colourless.
Odour	: Odourless; no odour warning properties
Odour threshold	: Not applicable; odour cannot be relied on as a warning of overexposure
pH	: Not applicable for gases and gas mixtures.
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gases and gas mixtures.
Melting point	: -272,2 °C
Freezing point	: No data available
Boiling point	: -268.9 °C
Flash point	: Not applicable for gases and gas mixtures.
Critical temperature	: -267.96 °C
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable.
Vapour pressure at 50 °C	: Not applicable.
Critical pressure	: 227.5 kPa
Relative vapour density at 20 °C	: Not applicable.
Relative density	: Not applicable.
Relative gas density	: 0.14
Solubility	: Water: 1.5 mg/l at 20 °C
Log Pow	: Not applicable for inorganic products.
Log Kow	: Not applicable for gas mixtures.
Viscosity, kinematic	: No reliable data available.
Viscosity, dynamic	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Non flammable.

9.2. Other information

Gas group	: Compressed gas
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SECTION 10: Stability and reactivity

10.1. Reactivity

Helium is chemically inert and does not react under normal conditions. No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid extreme temperatures outside the container's design limits. Avoid contamination of gas supply with moisture or other gases.

10.5. Incompatible materials

Helium is compatible with most common materials. For cryogenic (liquid helium) applications, certain metals (e.g., carbon steel, low alloy steel) and some plastics can become brittle at very low temperatures. Use materials compatible with cryogenic conditions. For detailed guidance on material compatibility, refer to ISO 11114.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified (High concentrations may cause asphyxiation due to oxygen displacement.)
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No ecological damage caused by this product.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

HELIUM (7440-59-7)

Persistence and degradability	No ecological damage caused by this product.
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12.3. Bioaccumulative potential

HELIUM (7440-59-7)

Log Pow	Not applicable for inorganic products.
Log Kow	Not applicable for gas mixtures.
Bioaccumulative potential	No data available.

12.4. Mobility in soil

HELIUM (7440-59-7)

Mobility in soil	No additional information available
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.



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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : Not classified as PBT or vPvB

12.6. Other adverse effects

Ozone : Not classified
Other adverse effects : No known adverse environmental effects under normal conditions of use.
Effect on the ozone layer : None.
Effect on global warming : None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Do not dispose of compressed gas cylinders as waste. Residual gas may be vented to the atmosphere in a well-ventilated area, provided that accumulation in confined spaces is avoided. Return unused or partially used cylinders to the supplier.

Waste treatment methods : Disposal must be carried out in accordance with applicable local and national regulations. Waste Management Regulation (Official Journal No. 29314, 02 April 2015, Turkey).

Additional information : External treatment, disposal, or recycling of containers should be performed only by authorized organizations. Do not puncture or incinerate cylinders.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1046	1046	1046	Not applicable	Not applicable
14.2. UN proper shipping name				
HELIUM, COMPRESSED	HELIUM, COMPRESSED	Helium, compressed	Not applicable	Not applicable
Transport document description				
UN 1046 HELIUM, COMPRESSED, 2.2, (E)	UN 1046 HELIUM, COMPRESSED, 2.2, (E)	UN 1046 Helium, compressed, 2.2	Not applicable	Not applicable
14.3. Transport hazard class(es)				
2.2	2.2	2.2	Not applicable	Not applicable
			Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Special transport precautions : 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 there is adequate ventilation, - 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.

- Overland transport

Classification code (ADR) : 1A



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Special provisions (ADR)	: 653
Limited quantities (ADR)	: 120ml
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P200
Mixed packing provisions (ADR)	: MP9
Portable tank and bulk container instructions (ADR)	: M
Tank code (ADR)	: CxBN(M)
Tank special provisions (ADR)	: TA4, TT9
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV11, CV36
Hazard identification number (Kemler No.)	: 20
Orange plates	:



Tunnel restriction code (ADR)	: E
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- Transport by sea

Limited quantities (IMDG)	: 120 ml
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P200
Tank instructions (IMDG)	: T75
Tank special provisions (IMDG)	: TP5, TP34
EmS-No. (Fire)	: F-C
EmS-No. (Spillage)	: S-V
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Compressed, inert gas. Much lighter than air (0.14).
MFAG-No	: 121

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 200
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 200
CAO max net quantity (IATA)	: 150kg
ERG code (IATA)	: 2L

- Inland waterway transport

No data available

- Rail transport

No data available

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

Not applicable



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SECTION 15: Regulatory information

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

15.1.1. National regulations

Local regulations (Turkey) : Regulation on Health and Safety Precautions When Working with Chemical Substances (Official Journal No. 28733, 12 August 2013)
Regulation on the Use of Personal Protective Equipment in Workplaces (Official Journal No. 28695, 02 July 2013)
Personal Protective Equipment Regulation (Official Journal No. 26361, 29 November 2006)
Regulation on the Transport of Dangerous Goods by Road (ADR) (Official Journal No. 28801, 24 October 2013)
Waste Management Regulation (Official Journal No. 29314, 02 April 2015)

This product does not contain substances controlled or prohibited under the Regulation on the Reduction of Ozone Depleting Substances (Official Journal No. 27052, 12 November 2008).

Restrictions on use : None.

SECTION 16: Other information

Abbreviations and acronyms:

	ATE - Acute Toxicity Estimate
	ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
	REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
	EINECS – European Inventory of Existing Commercial Chemical Substances
	CAS – Chemical Abstracts Service number
	PPE - Personal Protection Equipment
	LC50 - Lethal Concentration to 50 % of a test population
	RMM - Risk Management Measures
	PBT - Persistent, Bioaccumulative and Toxic
	vPvB - Very Persistent and Very Bioaccumulative
	STOT- SE : Specific Target Organ Toxicity - Single Exposure
	CSA – Chemical Safety Assessment
	EN - European Standard
	UN - United Nations
	ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
	IATA - International Air Transport Association
	IMDG code - International Maritime Dangerous Goods
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
	WGK - Water Hazard Class
	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure



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Data sources	: Regulation (EC) No. 1907/2006 (REACH) Commission Regulation (EU) 2020/878 amending Annex II of REACH Regulation (EC) No. 1272/2008 (CLP – EU GHS) Regulation on the Classification, Labelling and Packaging of Substances and Mixtures (SEA), Official Gazette No. 28848, 11.12.2013 Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (KKDIK), Official Gazette No. 30105, 23.06.2017 Regulation on Health and Safety Measures When Working with Chemical Substances, Official Gazette No. 28733, 12.08.2013 Regulation on the Transport of Dangerous Goods by Road (ADR), Official Gazette No. 28801, 24.10.2013 European Chemicals Agency (ECHA) databases European Industrial Gases Association (EIGA) safety data and publications ECDIN – Environmental Chemicals Data and Information Network
Educational recommendations	: Since the danger of suffocation is often overlooked, it should be emphasized during operator training. For more information, refer to the EIGA SL 01 "Choking Hazards" document, which can be downloaded from http://www.eiga.eu .
Other information	: Classification in the light of information in databases managed by the European Industrial Gases Association (EIGA).
Data sources	: 91/155 / EEC and "Registration, Evaluation, Authorization of Chemicals and Regulation on Restriction".
Training advice	: The hazard of asphyxiation is often overlooked and must be emphasized during operator training. For additional guidance, refer to EIGA Safety Leaflet SL 01 – "Dangers of Asphyxiation", available from the European Industrial Gases Association.
Other information	: Classification is based on available data for the mixture and its components, using information from databases maintained by the European Industrial Gases Association (EIGA).

Full text of H-statements

Press. Gas (Comp.),	Gases under pressure : Compressed gas
H280	Contains gas under pressure; may explode if heated.

Revision information: This Safety Data Sheet has been revised in accordance with Commission Regulation (EU) 2020/878 and the applicable KKDIK Regulation.

Revision No.: 02

Revision date: 17.12.2025

Changes: Update of classification and revision of Sections 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,14, 15 and 16.

Restriction / Prohibition:

No prohibition or restriction has been imposed on the sale, use, usage areas and quantities of the product within the scope of this safety data sheet in order to protect the environment and human health.

The information contained in this safety data sheet has been compiled based on the manufacturer's experience.

The product-related information in this Safety Data Sheet has been compiled from what is known about the components. The data here is based on current knowledge and experience. This Safety Data Sheet examines the product for safety requirements and does not make any warranties regarding the product's specifications.



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The data here is only valid when the product is used in the appropriate application(s). The product is not sold in accordance with other applications; In such a case, its use may lead to risks not mentioned in this list. Do not use for other application(s) without information from the manufacturer.

"Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals" has been prepared in accordance with O.G. 23.06.2017-30105 (Repeated) and has been prepared/approved by certified expert personnel as stipulated by the regulation.

The information provided in this document is based on the best available information. This information applies only to the specified substance/preparation and may not apply if this substance/preparation is mixed with other substances/preparations or used in any other process.

The information provided in this document does not constitute a guarantee/guarantee for the features of the product and does not have the characteristics of a legally binding agreement/contractual legal relationship. This document complements the technical documentation, but is not replaceable. The information provided is based on our knowledge of this product as it exists at the time of publication.

Safety Data Sheet Prepared by:

Buse BAYGINOĞLU

Chemical Engineer

Chemical Assessment Specialist

Head. No: TÜV/11.302.01

Expiration Date: 5 November 2030