



Safety Data Sheet

Helium, 99.999%

Section 1: Product and Company Identification

Liquid Technology Corporation
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Product Code: Helium, 99.999%

Section 2: Hazards Identification



Warning

Hazard Classification:
Gases Under Pressure

Hazard Statements:
Contains gas under pressure; may explode if heated

Precautionary Statements

Storage:
Protect from sunlight.
Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

CAS #
7440-59-7

Chemical Substance
HELIUM

Section 4: First Aid Measures

Skin Contact

Wash exposed skin with soap and water.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media

Non-flammable. Use suitable extinguishing media for surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

Methods for Cleanup

Stop leak, evacuate area. Contact emergency personnel.

Section 7: Handling and Storage

Handling

Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

HELIUM: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

Eye Protection

Eye protection not required, but recommended.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	
Gas	Colorless	
Flash Point	Flammability	
Not flammable	Not available	
Boiling Point	Freezing Point	Vapor Pressure
-452 F (-269 C)	-458 F (-272 C) @ 26 atm	1719 mmHg @ -
Molecular Weight	Molecular Formula	
4.0026	He	

Section 10: Stability and Reactivity

Stability

Stable at normal temperatures and pressure.

Hazardous Decomposition Products

Miscellaneous decomposition products

Section 11: Toxicology Information

Acute Effects

Oral LD50

Not available

Eye Irritation

Liquid: frostbite, blurred vision

Chronic Effects

Carcinogenicity

Not available

Section 12: Ecological Information

Fate and Transport

Eco toxicity

Fish toxicity: Not available

Invertibrate toxicity: Not available

Algal toxicity: Not available

Phyto toxicity: Not available

Other toxicity: Not available

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number
Helium, compressed	UN1046

Canadian Transportation of Dangerous Goods

Shipping Name
Helium, compressed

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections
Not regulated.

SARA 370.21

Acute
Yes

SARA 372.65

Not regulated.

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65
Not regulated.

Canadian Regulations

WHMIS Classification
A

National Inventory Status

US Inventory (TSCA)
Listed on inventory.

Section 16: Other Information

NFPA Rating

HEALTH=0 FIRE=0 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard