



1001 TECHNOLOGY WAY, LIBERTYVILLE, IL 60048
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SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Spectrum Tube, Helium (Product No. SPTHE01)

Common Name: Helium Gas

Recommended Use: Educational, study of spectral lines

Restrictions on Use: Use under supervision of science teacher

Manufacturer Information

United Scientific Supplies, Inc.
1001 Technology Way,
Libertyville, IL 60048

General and Emergency Phone No.

847-336-7556

DATE PREPARED

September 1, 2022

Section 2: Hazards Identification

Hazard Classification: Gas under very low pressure

General Statement: The amount of helium gas contained in each tube is much less than 1% by volume; does not present hazard if tube is accidentally broken.

Section 3: Composition / Information on Ingredients

CAS: 7440-59-7

Component: Helium

Percent: 100%, very low concentration by volume

Section 4: First-Aid Measures

Description of Necessary Measures: No information regarding necessary measures due to very low concentrations of gas contained in each tube. If tube broken, treat for cuts and possible burns resulting from tube if hot.

Section 5: Fire-Fighting Measures

Recommendations for fighting fire caused by the chemical: Due to the very low concentration of gas contained in each tube, it is not likely that the release of the chemical will cause a fire, nor will release during a fire require any special fire-fighting measures.

Section 6: Accidental Release Measures

Recommendations for Personal Precautions and Emergency Procedures:

None required.

Methods and Material Used to Containment and Clean Up: Dispose of any broken glass properly.

Section 7: Handling and Storage

Precautions for Safe Handling: Never handle tube when hot, or energized. Keep away from heat, use indoors, with approved source of power.

Conditions for Safe Storage: Store at room temperature. Protect glass from breakage.

Incompatibilities While Storing: Keep away from any chemical that might attack glass.

Section 8: Exposure Controls / Personal Protection

Component Exposure Limits: Use in an area providing normal ventilation. Never use in a confined space

Personal Protection: Wear safety glasses when using this product. Observe normal normal laboratory procedures.

Section 9: Physical and Chemical Properties

Physical State: colorless, odorless gas

Vapor Pressure: 1719 mmHg @ -268 °C

Density: 0.1785 g/L @ 0 °C

Molecular Weight: 4.0026

Melting/Freezing Point: -272 °C @ 26 atm

Vapor Density (air=1) 0.138

Boiling Point: -269 °C

Molecular Formula: He

Section 10: Stability and Reactivity

Reactivity: None expected.

Chemical Stability: Stable. Present at very low pressures.

Conditions to Avoid: Avoid open flames, mechanical stress on glass

Section 11: Toxicological Information

No such data is available for the very low concentrations of this chemical in each tube.

Sections 12: Ecological Information No data available

Section 13: Disposal Considerations

Disposal Methods: Dispose of in accordance with all applicable local regulations.

Sections 14/15: Transport and Regulatory Information Not applicable

Section 16: Other Information

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