



1001 TECHNOLOGY WAY, LIBERTYVILLE, IL 60048

TELEPHONE: 847-336-7556

SAFETY DATA SHEET

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### Section 1: Identification

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**Product Identifier:** Spectrum Tube, Neon (Product No. SPTNE01)

**Common Name:** Neon 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

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### Section 2: Hazards Identification

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**Hazard Classification:** Gas under very low pressure

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

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### Section 3: Composition / Information on Ingredients

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**CAS:** 7440-01-9

**Component:** Neon

**Percent:** 100%, very low concentration by volume

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### Section 4: First-Aid Measures

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**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.

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### Section 5: Fire-Fighting Measures

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**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, as neon is a negligible fire hazard.

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### Section 6: Accidental Release Measures

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**Recommendations for Personal Precautions and Emergency Procedures:**

None required.

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

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### Section 7: Handling and Storage

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**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.

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### Section 8: Exposure Controls / Personal Protection

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**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.

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### Section 9: Physical and Chemical Properties

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**Physical State:** colorless, odorless gas

**Vapor Pressure:** 760 mmHg @ -246 °C

**Density:** 0.9002 g/L @ 0 °C

**Molecular Weight:** 20.179

**Melting/Freezing Point:** -249 °C

**Vapor Density (air=1)** 0.6964

**Boiling Point:** -246 °C

**Molecular Formula:** Ne

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### Section 10: Stability and Reactivity

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**Reactivity:** None expected.

**Chemical Stability:** Stable. Present at very low pressures.

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

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### Section 11: Toxicological Information

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

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**Sections 12: Ecological Information** No data available

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### Section 13: Disposal Considerations

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

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**Sections 14/15: Transport and Regulatory Information** Not applicable

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### Section 16: Other Information

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The above information is based upon the best information available to us. United Scientific Supplies shall not be held liable for any claims, losses or damages resulting from reliance on this information. Users should do their own research to determine the suitability of the information for their own use of this product.