



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**February 15, 2024**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 21642

**EXPIRATION DATE: 2024-06-30**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Air Liquide Electronics U.S. LP  
Morrisville, PA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the one-time shipment of non-DOT specification cylinders containing Xenon to the USA for discharge and then destruction. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 171.23(a)(1) and (4) in that DOT specification cylinders are required, except as described herein.
5. BASIS: This special permit is based on the application of Air Liquide Electronics U.S. LP dated September 19, 2023, submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2023094740

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Xenon, compressed	2.2	UN2036	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: The prescribed packaging is non-DOT specification seamless steel cylinder that is approved by the High Pressure Gas Safety Institute of Japan. The cylinder has rated service pressure of 14.7MPa (2,132psi), has water capacity of 2.3L and design test pressure of 24.5MPa (3,553psi). The cylinder drawing, design calculations, and inspection certificate are included with Air Liquide Electronics application on file with the Office of Hazardous Materials Safety (OHMS).

b. OPERATIONAL CONTROLS:

(1) This will be a one-time shipment of two, 2.3L seamless steel cylinders charged with Xenon, UN2036, Div. 2.2 compressed gas from South Korea to the Port of Houston, Texas, United States, by cargo vessel. They will then be transported by truck to the Samsung facility in Taylor, TX for discharge. Following discharge of contents, the empty cylinders shall be destroyed.

(2) The shipping paper must identify the cylinders with the special permit number "DOT-SP 21642".

(3) Cylinders authorized under this special permit must be transported by cargo vessel from Korea to the Port of Houston, Texas, in the United States only when loaded into closed cargo transport unit.

(4) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with pressure relief devices and provide appropriate guidance for exposure to fire.

(5) The cylinders must be transported from Houston, Texas, to Taylor, Texas in a dedicated truck. Air Liquide Electronics, US must act as the offeror (shipper).

- c. MARKING: The outside of each package must be plainly and durably marked “DOT-SP 21642”.
8. SPECIAL PROVISIONS:
- a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.
- b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, and cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, or motor vehicle used to transport packages covered by this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) —“The Hazardous Materials Safety and Security Reauthorization Act of 2005” (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term “exemption” to “special permit” and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. **REPORTING REQUIREMENTS:** Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for William Schoonover  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-13, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at <https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search>. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: RS/TG