



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

September 10, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 22046

EXPIRATION DATE: 2027-08-31

(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 transportation in commerce of dichlorosilane in non-DOT specification cylinders manufactured to a foreign specification. 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) in that non-DOT specification cylinders are not authorized, except as provided herein.
5. BASIS: This special permit is based on the application of Air Liquide Electronics U.S. LP dated June 12, 2025, submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2025064546

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Dichlorosilane	2.3	UN2189	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Prescribed packagings are two (2) 40-liter, non-DOT specification welded stainless cylinders; a Chinese-approved GB cylinder, and a Japanese KHK cylinder as described in the application on file with the Office of Hazardous Materials Safety. Both cylinders contain approximately 37kg of dichlorosilane (UN2189).

b. OPERATIONAL CONTROLS:

(1) The two cylinders filled with dichlorosilane may only be transported when overpacked in salvage cylinders in accordance with 49 CFR § 173.3(d).

(2) One-time, one-way transportation is authorized from 302 Port Jersey Blvd, Jersey City, NJ to Air Liquide Electronics, U.S. LP, 19 Steel Road, Morrisville, PA.

(3) Air Liquide Electronics U.S. LP will act as the shipper (offeror) and the cylinders must be transported by a carrier that is certified for hazardous materials transportation.

(4) The shipping papers must identify the cylinders with the special permit number "DOT-SP 22046".

(5) Emergency response information shall be provided with the shipment on the Safety Data Sheet (SDS) and through an emergency response phone provider as required.

(6) The emptied cylinders must be rendered incapable of holding pressure.

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 or its contents 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.
 10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each 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.:

A handwritten signature in blue ink, appearing to read "W. Quade", is written over a faint, illegible printed name.

for William Quade
Acting 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: BB