



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

June 20, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 21908

EXPIRATION DATE: 2027-05-31

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Zipline International Inc.
South San Francisco, CA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of the hazardous material listed in paragraph 6. aboard cargo-only aircraft. This special permit provides no relief from the Hazardous Materials Regulations (HMR) or the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) 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.
 - d. This special permit serves as an approval under Special Provision A2 of the ICAO TI and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Hazardous Materials Table Column (9B) in that "61 kg" is substituted for "Forbidden" for the entry associated with UN3537, articles containing flammable gas, n.o.s.; § 172.301(c) in that each package need not be marked with the special permit number, as provided herein; and § 173.232(g)(3) and § 173.307(a)(4)(iii) in that transportation aboard cargo aircraft is authorized, as provided herein.

Tracking Number: 2024124221

5. BASIS: This special permit is based on the application of Zipline International Inc. submitted on December 3, 2024, in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Articles containing flammable gas, n.o.s. (refrigerating/charging dock containing R-1234yf gas*)	2.1	UN3537	N/A

*2,3,3,3-Tetrafluoropropene

7. SAFETY CONTROL MEASURES:

a. PACKAGING:

- (1) The article must be packaged and conform to Packing Instruction 221 in the Supplement to the ICAO TI and to § 173.232 except for § 173.232(g)(3). The flammable liquefied gas must be contained within components that must be designed and tested to:
- (i) At least three times the working pressure of the machinery.
 - (ii) Contain the liquefied gas and preclude the risk of bursting or cracking of the pressure-retaining components during normal conditions of transport.
- (2) As indicated in § 173.232(b) and Part 2, Introductory Chapter, 6.2 of the ICAO TI, the article may contain a lithium ion battery. The article may contain one lithium ion battery provided the lithium ion battery conforms to the size limit in § 173.185(c)(1)(i) and in Section II of Packing Instruction 967 of the ICAO TI. The net weight of the battery may not exceed 5 kg. The lithium ion battery must be of a type proven to meet the testing requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3 (incorporated by reference; see § 171.7).

(3) The article must be packaged in strong outer packagings in accordance with § 173.232(f)(2) and the ROBUST ARTICLES paragraph in Packing Instruction 221 in the Supplement to the ICAO TI. The strong outer packaging must be capable of meeting the Packing Group II performance requirement.

(4) The article must be packaged in a manner to prevent short circuits of the lithium ion battery, damage caused by shifting or placement within the package, and accidental activation.

b. Each article shall contain a maximum of 300 g of R-1234yf refrigerant gas. The net weight of the article may not exceed 61 kg.

c. Not more than one article is permitted in an outer packaging.

8. SPECIAL PROVISIONS:

a. Under the terms of this special permit, the grantee may only offer hazardous materials (i.e., the grantee is not authorized as a carrier).

b. 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, the HMR, and the ICAO TI.

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each package need not be marked with the special permit number.

e. The hazardous material listed in paragraph 6. may be offered for and transported aboard cargo-only aircraft under the terms of this special permit.

9. MODES OF TRANSPORTATION AUTHORIZED: Cargo-only aircraft.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each aircraft used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

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 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: BM