



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**September 17, 2021**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 14543  
(FIFTH REVISION)

**EXPIRATION DATE: 2025-08-31**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: LBM Techno Gas GmbH  
Langenfeld, Germany  
  
US AGENT: Leland Limited Incorporated  
South Plainfield, NJ
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the manufacture, mark, sale and use of a DOT Specification 39 cylinder for transporting carbon dioxide (Division 2.2) with a maximum permitted filling density of 75 percent. 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. The safety analyses did not consider the hazards and risks associated with use as a component of another device, or other uses not associated with transportation in commerce.
  - c. In accordance with 49 CFR 107.107(a) party status may not be granted to a manufacturing permit. These packagings may be used in accordance with 49 CFR 173.22a.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR 173.304a(a)(2) in that the maximum permitted filling density for carbon dioxide is 75 percent for a DOT Specification 39 cylinder.
5. BASIS: This special permit is based on the application of LBM Techno Gas GmbH Dated August 10, 2021, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR 172.101):

<b>Hazardous Materials Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Carbon dioxide (compressed liquefied gas)	2.2	UN1013	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Packaging prescribed is a DOT Specification 39 cylinder made in accordance with LBM Techno Gas GmbH drawings submitted with the special permit application and on file with the Office of Hazardous Materials Safety Approvals and Permits Division. The cylinders have the following characteristics:

LMB Techno Gas GmbH Drawing Number	Outside Diameter	Water Capacity	Minimum Test Pressure
001-00 Blatt:3	60mm (2.36 in)	0.3 – 1.1L (18.3 – 67.1 in <sup>3</sup> )	250 Bar (3,625 psig)
001-00 Blatt:6	50mm (1.97 in)	0.16 -0.76L (9.76 – 46.7 in <sup>3</sup> )	300 Bar (4,351 psig)
001-00 Blatt:9	60mm (2.36 in)	0.3 – 1.1L (18.3 – 67.1 in <sup>3</sup> )	300 Bar (4,351 psig)

b. OPERATIONAL CONTROLS: The maximum permitted filling density for carbon dioxide is 75%.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

b. A person who is not a holder of this special permit, but receives a packaging covered by this special permit, may reoffer it for transportation provided no modifications or changes are made to the packaging and it is offered for transportation in conformance with this special permit and the HMR.

- 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 packaging manufactured under the authority of this special permit must be marked with a registration symbol designated by the Office of Hazardous Materials Approvals and Permits Division for a specific manufacturing facility.
  - e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to a DOT representative upon request.
  - f. The cylinders may be used only for Submarine Escape & Immersion Equipment.
  - g. Each cylinder must be packaged in an outer packaging for shipment in accordance with § 173.301(a)(9).
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel and aircraft used to transport packages covered by this special permit. The shipper must furnish a current 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 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: PDW