

June 28, 2006



U.S. Department  
of Transportation

400 Seventh Street, S.W.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 8414  
(NINTH REVISION)

EXPIRATION DATE: May 31, 2010

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer SAS, Puteaux Cedex, France  
(U.S. Agent: Eurotainer U.S. Inc., Humble, TX)
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of certain Division 2.1 and 2.2 gases in non-DOT specification intermodal portable tanks. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
  - c. Party status will not 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 §§ 173.315 and 174.63(b), in that non-DOT specification packaging is not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of Eurotainer SAS dated June 14, 2006, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<b>Hazardous Material Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
1-Chloro-1, 1-Difluoroethane or Refrigerant gas, R 142	2.1	UN2517	N/A
Chlorodifluorobromomethane or Refrigerant gas, R 12B1	2.2	UN1974	N/A
Dichlorodifluoromethane or Refrigerant gas, R 12	2.2	UN1028	N/A
1-2-Dichloro-1, 1, 2, 2-Tetrafluoroethane or Refrigerant gas, R 114	2.2	UN1958	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-DOT specification intermodal portable tank mounted in an ISO frame, designed and constructed in accordance with Fauvet-Rail drawings CO 166492, CO 166491, CO 166494 technical specifications, and calculations on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA), and in conformance with the following:

- (1) Code--Complies with ASME Section VIII Division 1 (not stamped) and IMCO Type 5.
- (2) Insulation--None
- (3) Water Capacity (U.S. Gallons)--4306
- (4) Material--A52 FP steel. Y.P.=53,230 psi, T.S.=79,772 psi, and E=22%.

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- |                        | Diameter | X Length | X Thickness |
|------------------------|----------|----------|-------------|
| (5) Tank Size (inches) | 78.74    | 226.4    | 0.390       |
- Head Thickness--0.4003 (after forming)  
Weld Joint Efficiency--1.0
- (6) Design Pressure (PSIG)--197.3  
Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.
- (7) Test Pressure, Minimum (PSIG)--295.9
- (8) Openings--One 18-inch manway in one head and one 4.7-inch inspection opening in other head; two 4-inch loading/unloading fittings in tank bottom, and one 3-inch safety relief valve pad on the top center of the tank.
- (9) Tank surface area (square feet)--410
- (10) Safety Relief Devices--Two 2-1/2 inch safety relief valves in parallel, both serially mounted outboard of a 3-inch rupture disc all set to function between 197.3 and 217 psig. The total vent capacity is 889,929 SCFH at 217 psig.
- (11) G-Loadings: Vertical down 2; Vertical up 1; Longitudinal 2; and Transverse 1.
- (12) Maximum Gross Weight (pounds)--52,910
- (13) Maximum Commodity Weight (pounds)--40,675
- (14) Tare Weight (pounds)--12,235

**b. TESTING -**

- (1) Hydrostatic test certificates for each tank must be maintained by the owner or manufacturer at its principal business office and be made available to any representative of the DOT upon request.
- (2) A test report documenting a satisfactory ISO prototype frame test for this tank design must be on file with, and acknowledged by, the OHMSPA prior to the first shipment.

- (3) Each tank must be (i) visually inspected prior to each trip to insure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every 5 years in accordance with the provisions of § 180.605 as prescribed for DOT 51 Specification portable tanks.

c. OPERATIONAL CONTROLS -

- (1) Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-SP 8414".
- (2) No product may be shipped that has venting requirements exceeding 889,929 SCFH at 217 psig. The venting capacity required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) pamphlet S-1.2.
- (3) The tank must be filled by weight in accordance with the provisions of § 173.315.

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.

c. Transportation of Division 2.1 (flammable gases) materials are not authorized aboard cargo vessel unless specifically authorized in the Hazardous Materials Table (§ 172.101).

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- d. Packagings permanently marked 'DOT-E 8414', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked 'DOT-SP 8414'.
- e. Shipping papers displaying 'DOT-E 8414' may continue to be used until October 1, 2007, provided the special permit remains valid.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel.
10. MODAL REQUIREMENTS:
- a. 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.
- b. Portable tanks may not be transported in trailer-on-flatcar (TOFC) service except under conditions approved by the Associate Administrator for Safety, Federal Railroad Administration (FRA). Portable tanks may be transported in container-on-flatcar (COFC) service only under the following conditions:
- (1) Portable tanks must be equipped to be securely attached to a railcar equipped with an ISO standard COFC basic pedestal system designed for container support and securement;
  - (2) Each railcar used to transport portable tanks must be equipped with a cushioning system that meets the requirements of the Association of American Railroads Specification M-952-82; and
  - (3) Shipments made under this special permit must be in accordance with § 174.84.
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:

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- 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 the 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:

a. The grantee of this special permit, as identified in paragraph 1 above, must contact the OHMSPA immediately after any of the tanks covered by this special permit are sold to another party.

b. 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 "R. Ryan Torler". The signature is stylized and cursive.

for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: sln