



U.S. Department
of Transportation

Research and
Special Programs
Administration

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

JUL 19 2004

DOT-E 8232
(TENTH REVISION)

EXPIRATION DATE: June 30, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer, SAS, Cedex, France
(U.S. Agent: Eurotainer U.S. Inc., Houston, TX)

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain Division 2.1 and Division 2.2 materials and a Class 3 material in non-DOT specification portable tanks. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.315 in that a non-DOT specification portable tank is not authorized, except as prescribed herein.

5. BASIS: This exemption is based on the application of Eurotainer, SAS dated June 28, 2004, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Butadienes, stabilized	2.1	UN1010	N/A
Butane	2.1	UN1011	N/A
Butylene	2.1	UN1012	N/A
1-Chloro-1, 1-difluoroethane or Refrigerant gas R 142B	2.1	UN2517	N/A
1,1-Difluoroethane or Refrigerant gas R 152a	2.1	UN1030	N/A
Dimethylamine, anhydrous	2.1	UN1032	N/A
Dimethyl ether	2.1	UN1033	N/A
Ethyl chloride	2.1	UN1037	N/A
Isobutylene	2.1	UN1055	N/A
Methyl chloride or Refrigerant gas R 40	2.1	UN1063	N/A
Methylamine, anhydrous	2.1	UN1061	N/A
Pentanes	3	UN1265	I
Trimethylamine, anhydrous	2.1	UN1083	N/A
1,1,1,2-tetrafluoroethane	2.2	UN3159	N/A
Vinyl chloride, stabilized	2.1	UN1086	N/A

7. SAFETY CONTROL MEASURES:

- a. PACKAGING - Prescribed packaging is a non-DOT specification portable tank, mounted in an ISO Type 1C frame, designed and constructed in accordance with ANF Model 46.070; ANF drawings 4.6.07.0.931.0.000 Rev. E dated

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December 7, 1978 and 4.6.07.0.193.0.000 Rev. F dated November 4, 1978, except that tanks made after February 28, 1980 must have their safety relief devices mounted in accordance with ANF drawing 4.6.07.0.193.007 Rev. 0, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in conformance to the following:

- (1) Code--Complies with IMO Type V specification and Section VIII of the ASME Code but not marked.
- (2) Water Capacity (U.S. Gallons) - 6384.
- (3) Material - French designation A52 P2 steel with 74,000 psi tensile strength, 51,000 psi yield strength and 23% elongation.

- (4) Tank Size (inches) -

(outside dia.)	X (length)	X (thickness)
<u>94.5</u>	<u>233.2</u>	<u>0.476</u>

Head Thickness - 0.519 inch
Weld Joint Efficiency - 100%

- (5) Design Pressure (PSIG) - 185

Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.

- (6) Test Pressure, Minimum (PSIG) - 277.5.
- (7) Opening--One rotary gauge and one manhole containing fill and discharge outlets located on one head and safety relief device openings located on top of tank.

- (8) Tank surface area (square feet) - 578.

- (9) Safety Relief Devices - 1 spring loaded safety relief valve in series and outboard of a rupture disc both set to relieve at not less than 185 psig and not over 204 psig. Total relieving capacity is 520,000 SCFH. Each valve must be arranged to discharge upward and unobstructed to the outside of frame to prevent impingement of escaping gas on the tank itself, on other tanks or on the cargo vessel.

- (10) G-Loadings: As tested; Vertical down 2; Vertical up 2; Longitudinal 1; and Transverse 1.
- (11) Maximum Gross Weight - 61,728 Pounds.
- (12) Maximum Load - 45,178 pounds.
- (13) Tanks with the following serial numbers 780601 to 780610; 790501 to 790520; 928001 to 928010; and 929001 to 929016 equipped with safety relief valves not in compliance with Drawing 4.6.07.0.193.007 may be transported under the terms of this exemption.
- (14) Tanks built after June 1, 1981 must have their safety relief valves mounted in accordance with ANF drawing 4.6.07.931.005.
- (15) Insulation - sun shield (optional).

b. TESTING -

- (1) Each tank must be (i) visually inspected prior to each trip to insure that it has not been damaged on the previous trip; (ii) visually inspected at least once in every 2-1/2 years in accordance with the provisions of § 173.32(e) for DOT 51 Specification portable tanks; and (iii) pressure tested at least once every 5 years at one and one-half times the design pressure.
- (2) Hydrostatic test certificates for each tank must be on file with the OHMEA prior to the first shipment.

c. OPERATIONAL CONTROLS -

- (1) Sun shield must be in place when portable tanks are used to transport Dimethyl ether.
- (2) 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-E 8232."
- (3) The tank must be filled so as not to be liquid full at 130°F. Maximum permitted filling density (percent by weight) must be as prescribed in §§ 173.315(a) or (b) as applicable.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption 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 exemption and the HMR.

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

c. Transportation of a Division 2.1 material (flammable gases) is not authorized aboard cargo vessel unless specifically authorized in the Hazardous materials table (§ 172.101).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel (see restriction in paragraph 8.c above.)

10. MODAL REQUIREMENTS:

a. A current copy of this exemption must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this exemption.

b. Portable tanks may not be transported in container-on-flat car (COFC) or trailer-on-flat car (TOFC) service except under conditions approved by the Associate Administrator for Safety, Federal Railroad Administration.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption 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 exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

o Persons operating under the terms of this exemption 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 exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

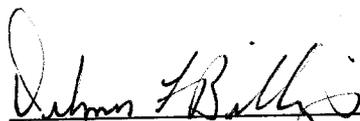
No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS:

a. The holder of this exemption, as identified in paragraph 1 above, must contact the OHMEA immediately after any of the tanks covered by this exemption are sold to another party.

b. The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



Robert A. McGuive
Associate Administrator for
Hazardous Materials Safety

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Date

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

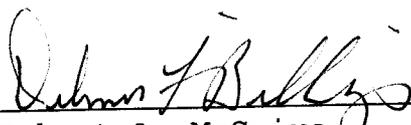
Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: ALB

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
National Refrigerants, Inc. Philadelphia, PA	Jul 12, 2004	JUL 19 2004	Jun 30, 2006



for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety