U.S. Department of Transportation
Research and Special Programs Administration

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

DOT-E 10032 (EXTENSION)
SECOND REVISION September 29, 1993

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 10032 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to August 31, 1997. This change is effective from the issue date of this extension. All other terms of the exemption remain unchanged.

This extension applies only to party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.105. This extension constitutes a necessary part of this exemption and must be attached to it.

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

DEC 6 1995
(DATE)

Dist: FHWA FRA USCG

EXEMPTION HOLDER	APPLICATION DATE
MCM, Management Control & Maintenance, S.A. Geneva, Switzerland (U.S. AGENT: Tank Container International, Ltd. Schaumburg, IL)	August 22, 1995
Eurotainer SA Paris, France (U.S. AGENT: Eurotainer USA, Inc. Somerset, NJ)	September 15, 1995
Elf Atochem SA Paris, France (U.S. AGENT: Elf Atochem North America, Inc. Philadelphia, PA)	October 4, 1995

Pending Renewal
Application Date: 5/29/97

DEC 6 1995

CONTINUATION OF DOT-E10032 (EXTENSION) SECOND REVISION September 29, 1993

EXEMPTION HOLDER	APPLICATION DATE
Arbel-Fauvet-Rail Paris, France (U.S. AGENT: C.J.B. International, Inc. Washington, DC)	October 18, 1995
Ermetainer S.A. Geneva, France (U.S. AGENT: C.J.B. International, Inc. Washington, DC)	October 18, 1995

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DOT-E 10032
(SECOND REVISION)

1. Arbel-Fauvet-Rail, Douai Cedex, France (U.S. Agent: C.J.B. International, Inc., Washington, D.C.), is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to offer packages of liquified Division 2.1 (flammable) and Division 2.2 (nonflammable) gases for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes shipment of liquified flammable and nonflammable gases in non-DOT specification IMO Type 5 steel portable tanks, and provides no relief from any regulation other than as specifically stated. Each of the following is hereby granted the status of a party to this exemption. **NOTE:** Reference to 49 CFR sections in this exemption are to regulations in effect on September 30, 1991.

MCM, Management Control & Maintenance, S.A. Geneva, Switzerland, (US Agent: Tank Container International, Ltd. Schaumburg, IL) - PTE-1.
Eurotainer, S.A., Paris, France, (US Agent: Eurotainer US, Inc., Somerset, NJ) -PTE-2.
Elf Atochem, S.A., Paris, France, (US Agent: Elf Atochem North America, Inc., Philadelphia, PA) -PTE-3.
Ermetainer S.A., Geneva, France, (US Agent: C.J.B. International, Inc., Washington, D.C.) -PTE-4.

2. BASIS. This exemption is based on Arbel-Fauvet-Rail' application dated April 28, 1992, submitted in accordance with 49 CFR 107.105 and supplemental letter dated June 2, 1992. The granting of party status is based on the following applications submitted in accordance with 49 CFR 107.111 and 107.105 and the public proceeding thereon:

MCM, Management Control and Maintenance, S.A.'s application dated February 27, 1992.
Eurotainer, S.A.'s application dated March 3, 1992.
Elf Atochem S.A.'s application dated March 19, 1992 and Supplemental letter dated March 22, 1993.
Ermetainer S.A.'s application dated September 16, 1992.

3. HAZARDOUS MATERIAL (Descriptor and class).

Butane; Butadiene inhibited; Butylene; Chlorodifluoroethane (R 142 b); Cyclopropane; Dimethyl ether; Difluoroethane (R 152 A); Dimethylamine, anhydrous; Ethylamine; Ethyl chloride; Isobutane Isobutylene;

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Methylamine, anhydrous; Methyl chloride; Propane; Propylene; 1, Trimethylamine, anhydrous; and Vinyl chloride, stabilized Division 2.1 materials; are classed as Division 2.1 flammable gases; other specifically identified to, and acknowledged in writing by, the Office of Hazardous Materials Exemptions and Approvals (OHMEA) prior to the first shipment. Ammonia, anhydrous; Dichlorodifluoromethane (R12) Chlorodifluoromethane (R 22); Dichlorodifluoromethane and difluoroethane azeotropic mixture with approximately 74% dichlorodifluoromethane; Hexafluoropropylene, and 1, 1, 1, 2, - tetrafluoroethane are classed as Division 2.2 (nonflammable gases); other Division 2.2 materials specifically identified to, and acknowledged in writing by, the OHMEA prior to the first shipment.

4. PROPER SHIPPING NAME (49 CFR 172.101). Specific chemical name, or generic description, as appropriate.

5. REGULATION AFFECTED. 49 CFR 173.315, 178.245.

6. MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle, rail freight and cargo vessel.

7. SAFETY CONTROL MEASURES. Packaging prescribed is a non-DOT specification steel portable tank that complies with DOT Specification 51, including ASME "U" stamp, except that the fill and discharge openings are not located on the top of the tank. The tanks are constructed in accordance with Arbel-Fauvet-Rail drawings C0168770 Rev. A dated 6/6/88, C-300047 Rev. A dated 6/6/88, C-300089 Rev. 0 dated 5/5/88, C-300097 Rev. 0 dated 11/5/88, C-300099, other drawings technical specifications, and calculations on file with the OHMEA and in compliance with the following:

(1) Code - Tanks must comply with DOT specification 51 in all respects except openings may be located other than on the top or at the end of the tank; IMO Type 5.

(2) Material: SA-612 carbon steel.

	Model FG 246/36	Model FG 247/36
(3) Water Capacity (US Gallons)	6,499	6,525

(4) Insulation - None. Tank provided with sunshield.

	Model FG 246/36	Model FG 247/36
(5) Baffles -	3	None

(6) Tank Size (inches) - Outside Dia. Length Thickness
95.275 x 236.811 x 0.7519(min.)

Head Thickness - 0.701 (min.)

Weld Joint Efficiency - 1

Corrosion Allowance - 0

(7) Design pressure - 319 psig

(8) Test pressure - 479 psig

(9) Openings - One (1) 18 inch diameter manway opening and one (1) 6.53 inch diameter opening for the pressure relief device on top of the tank; one (1) 2.56 inch opening for the vapor phase line and one (1) 2.56 inch opening for the liquid phase line on the bottom of the tank. NOTE: Each bottom outlet valve must be provided with a shear section that meets the requirements of 49 CFR 178.337-12.

(10) Tank surface area (square feet) - 527

(11) Pressure relief devices - one (1) 3 inch diameter spring
loaded safety relief valve set at 319 psig in series with and outboard of one (1) 3 inch rupture disc set at 319 psig.

(12) Total emergency venting capacity - 1,469,020 SCFH

(13) G-loadings - Vertical down - 2, vertical up - 1, longitudinal - 2, transverse - 1.

		Model FG 246/36	Model FG247/36
(14)	Maximum gross weight (pounds) -	79,366	79,366
(15)	Maximum commodity weight (pounds) -	55,997	57,760
(16)	Tare weight (pounds) -	23,369	21,606

(17) Design temperature - -4°F to 131°F

		Model FG 246/36	Model FG 247/36
(18)	Design specific gravity -	1.03	1.06

8. SPECIAL PROVISIONS.

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

b. Persons who receive packages covered by this exemption may reoffer them for transportation provided no modifications or changes are made to the packages, all terms of this exemption are complied with, and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

c. Each tank must (i) be visually inspected prior to shipment to insure that it has not been damaged during loading; and (ii) reinspected and retested once every five years in accordance with 49 CFR 173.32(e) as prescribed for DOT Specification 51 portable tanks.

d. Rear end protection for the motor vehicle must meet the requirements of 49 CFR 178.340-8(b) and 393.86.

e. Each portable tank must be secured to the motor vehicle in conformance with the requirements of 49 CFR 393.100 through 393.106.

f. 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 10032".

g. A test report documenting a satisfactory ISO prototype test for each tank design must be on file with the OHMEA prior to the first shipment.

h. Hydrostatic test certificates for each tank must be maintained by the manufacturer or owner and made available upon request to any representative of the Department of Transportation.

i. No product may be shipped that has a venting requirement exceeding 1,469,020 SCFH. The venting capacity required for each product must be determined by the flow formulas contained in the Compressed Gas Association (CGA) pamphlet S-1.2.

j. The tank must be filled by weight in accordance with the provisions of 49 CFR 173.315.

k. 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.

i. DOT-E 10032 must be stamped on the metal manufacturer's data plate on the line which reads "U.S. DOT Specification No.".

9. REPORTING REQUIREMENTS.

a. The holder of this exemption, as identified in paragraph 1 above, shall notify the OHMEA in writing immediately after any of the tanks covered by this exemption are sold to another party. The written notification must include both the manufacturer's and owner's serial numbers.

b. Shippers who ship under the terms of this exemption shall report any incident involving loss of contents or damage to the tanks described herein to the OHMEA as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.)

10. EXPIRATION DATE. March 31, 1994.

Issued at Washington, D.C.:

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Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

(DATE)

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

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Dist: USCG, FHWA, FRA.