U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

**DOT-E 10325 (EXTENSION)**
**ORIGINAL August 5, 1991**

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 10325 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to February 28, 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

MAR 31 1995
(DATE)

Dist: FHWA FRA USCG

| EXEMPTION HOLDER | APPLICATION DATE |
|---|---|
| Compagnie Des Containers Reservoirs<br>Paris, France<br>(U.S. AGENT: ERMEWA, Inc.<br>Houston, TX) | January 30, 1995 |

**ADVISORY**

IF YOU ARE A HOLDER OF AN EXEMPTION THAT AUTHORIZES THE USE OF A PACKAGING WITH A MAXIMUM CAPACITY LESS THAN 450 L (119 GALLONS) OR A MAXIMUM NET MASS LESS THAN 400 KG (882 POUNDS), PLEASE BE ADVISED THAT YOUR EXEMPTION MAY NOT BE RENEWED BEYOND SEPTEMBER 30, 1996. IN ADDITION, NO NEW CONSTRUCTION OF PACKAGINGS WHICH FALL WITHIN THE NON-BULK CAPACITIES LISTED ABOVE ARE AUTHORIZED AFTER SEPTEMBER 30, 1994. THIS IS CONSISTENT WITH THE IMPLEMENTATION OF THE NEW PACKAGING REQUIREMENTS ADOPTED UNDER DOCKET HM-181. ANY APPLICATION SUBMITTED TO THIS OFFICE TO RENEW AN EXEMPTION BEYOND THE SEPTEMBER 30, 1996 DATE WILL BE DENIED UNLESS THE APPLICATION CONTAINS SUPPORTING INFORMATION TO JUSTIFY THE CONTINUATION OF THE EXEMPTION.

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J. Suzanne Hedgepeth

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

JUL 17 1993
(DATE)

Dist: FHWA FRA USCG

| EXEMPTION HOLDER | APPLICATION DATE |
|---|---|
| Compagnie Des Containers Reservoirs<br>92080 Paris, France<br>(U.S. AGENT: SATI, Inc<br>Houston, TX) | April 28, 1993 |

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

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

AUG 5 1991

DOT-E 10325

1. Marley Industries, Paris, France (U. . Agent: Marine Container Equipment Certification Corporation; Farmingdale, New Jersey) is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to offer packages of liquified flammable and nonflammable compressed gases for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the shipment of liquified flammable and nonflammable gases in a non-DOT specification IMO Type 5 portable tanks with bottom outlets, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on Marley Industries' application dated December 10, and January 18, 1990, and additional information dated February 6, 1991, submitted in accordance with 49 CFR 107.103 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class).

a. Dichlorodifluoromethane; Chlorodifluoromethane; Chloropentafluoroethane; Dichlorodifluoromethane and Difluoroethane azeotropic mixture; and Chlorodifluoromethane and Chloropentafluoroethane mixture with a fixed boiling point; all classed as nonflammable gases.

b. Chlorodifluoroethane, Difluoroethane; classed as flammable gases.

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

5. REGULATION AFFECTED. 49 CFR 173.315 and 178.245-1(b).

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

7. SAFETY CONTROL MEASURES. Packaging prescribed is a non-DOT specification IMO type 5 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. Each bank is equipped with two (2) surge baffles and is designed and constructed in accordance with: ANF Industries drawing numbers 46150.990.019 rev.D, 46150.193.021 rev.D, 46150.197.006 rev.A, 46150.193.017 rev.E, and technical specifications, and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in conformance with the following:

a. Code - Complies with DOT Specification 51 in all respects except that the fill and discharge openings are located on the bottom of the tank.

b. Water capacity - 4439 gallons.

c. Insulation - None. Tanks are equipped with a sun shield.

d. Material - ASME SA-737 Grade C.

| | (outside dia.) | X (length) | X (thickness) |
|---|---|---|---|
| e. Tank Size (inches) | 79.33 | 164.89 | 0.677 (min.) |

Head Thickness(inches) - 0.625 (min.)
Weld Joint Efficiency - 1.0
Corrosion Allowance - 0.0

f. Design pressure (psig) - 330.7
Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.

g. Hydrostatic Test Pressure, minimum (psig) - 495

h. Openings - One (1) - 18 inch diameter opening for the manhole and one (1) - 6.4 inch opening for the pressure relief device on the top; One (1) - 3.6 inch diameter opening for the liquid phase valve and one (1) - 2.5 inch diameter opening for the vapor phase valve on the bottom.

Note: Each bottom outlet valve shall be provided with a shear section that meets the requirements of 49 CFR 178.337-12.

i. Tank surface area (square feet) - 421.9

j. Pressure Relief Devices - One (1), 3 inch diameter spring loaded safety relief valve set to open at 351 psig. Total relief device capacity is 1,871,677 SCFH. Each pressure relief device must be marked with a start-to-discharge pressure in psig and a rated relief device capacity in SCFH.

k. G-Loadings: Vertical down 2; Vertical up 1; Longitudinal 2; and Transverse 1.

l. Maximum Gross Weight: 67,196 pounds.

m. Tare Weight: 17,636 pounds.

n. Maximum Commodity Weight: 49,560 pounds.

p. Design Temperature Range (°F): -40 to +131.

8. SPECIAL PROVISIONS.

a. 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.

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

c. 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 10325."

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. 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.

g. No product may be shipped that has venting requirements exceeding 1,871,677 SCFH. The venting capacity required for each product must be determined by the flow formulas contained in the Compressed Gas Association's (CGA) Pamphlet S-1.2.

h. A test report documenting a satisfactory ISO prototype test for these tank designs must be on file with the OHMEA prior to the first shipment.

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

j. Each tank must be (i) visually inspected prior to each trip to ensure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every 5 years in accordance with 49 CFR 173.32(e) as prescribed for DOT Specification 51 portable tanks.

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

l. "DOT-E 10325" must be stamped on the metal manufacturer's data plate on the line which reads "U.S. DOT Specification No."

m. Motor carriers transporting portable tanks authorized under the terms of this exemption must hold a "Satisfactory" safety rating, as prescribed by Part 385 of 49 CFR.

9. REPORTING REQUIREMENTS.

a. The owner of the tanks covered by this exemption shall provide to the Office of Hazardous Materials Exemptions and Approvals (OHMEA) a list of all shippers who have shipped under this exemption and a shipping experience report every six months from the issue date of this exemption. The shipping experience report shall contain the approximate number of shipments made during the previous six months and any difficulties encountered.

b. The holder of, or parties to 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.

c. Any incident involving loss of packaging contents or packaging failure must be reported to the Associate Administrator for Hazardous Materials Safety as soon as practicable.

10. EXPIRATION DATE. June 30, 1993.

Issued at Washington, D.C.:

AUG 5 1991

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, U.S. Department of Transportation, Washington, D.C., 20590. Attention: Exemptions Branch.

Dist: USCG, FHWA, FRA