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

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

DOT-E 8733 (EXTENSION)
ORIGINAL October 19, 1982

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 8733 is hereby extended by changing the expiration date in paragraph 10 from June 1, 1988 to May 30, 1990.

This extension applies only to party(s) listed below based on the application(s) received in accordance with 49 CFR 107.105 and the public proceeding thereon. All other terms of the exemption remain unchanged. This extension forms part of the exemption and must be attached to it.

for Donald R. Smith

Alan I. Roberts
Director
Office of Hazardous Materials Transportation

JUL 20 1988
(DATE)

Dist: FHWA FRA USCG

EXEMPTION HOLDER	APPLICATION DATE
ICI Americas, Incorporated Wilmington, DE	March 24, 1988

U.S. Department of Transportation

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400 Seventh Street, S.W.
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DOT-E 8733
(FIRST REVISION)

AUG 1988

1. ICI Americas, Incorporated, Wilmington, Delaware, is hereby granted an exemption from certain provisions of this Department's Hazardous Material Regulations to offer the packaging described in paragraph 7 below for use in the transportation of the liquefied compressed gases described in paragraph 3 below in commerce subject to the requirements specified herein. This exemption authorizes the use of a non-DOT specification IMO Type 5 portable tank, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on ICI Americas Incorporated's application dated February 17, 1988, and March 24, 1988, submitted in accordance with 49 CFR 107.103 and 107.105 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class).

a. Dichlorodifluoromethane, chlorodifluoromethane; chloropentafluoroethane; and mixture of chlorodifluoromethane and chloropentafluoroethane classed as nonflammable gases; other nonflammable gases specifically identified to, and acknowledged in writing by, the Office of Hazardous Materials Transportation (OHMT) prior to the first shipment.

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

5. REGULATION AFFECTED. 49 CFR 173.315.

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

7. SAFETY CONTROL MEASURES.

a. Packaging prescribed is a non-DOT specification portable tank, mounted in ISO frame, designed and constructed in accordance with Imperial Chemical Industries, Limited drawing RS 333827 Rev. G dated February 25, 1982, other drawings, technical specification and calculations on file with the OHMT, and in compliance with the following:

(1) Code--Complies with ASME Code (not Code stamped); IMCO Type 5.

(2) Insulation-- None.

(3) Water Capacity (U.S. Gallons) -- 3300 (nominal).

(4) Material -- British steel standard BS 1501-224 Grade 32A.LT.30.

(5) Tank Size (inches) (outside dia.) X (length) X (thickness)

76.375	180.0	0.719(min)

Head Thickness -- 0.747(min)
Weld Joint Efficiency -- 1.0
Corrosion Allowance -- 0.0

(6) Design Pressure (PSIG) -- 340
Note: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.

(7) Test Pressure, Minimum (PSIG) -- 510

(8) Openings -- One(1), 18 inch diameter manhole on the front head; two(2), safety relief device pads on the top; and one(1), 5.3 inch diameter bottom outlet.
Note: Each bottom outlet valve shall be provided with a shear section that meets the requirements of 49 CFR 178.337-12

(9) Tank surface area (square feet) -- 336

(10) Pressure Relief Devices -- Two(2), 2 inch diameter spring loaded safety relief valves set at 374 psig. Total relief device capacity is 34,816 SCFM.

(11) G-Loading: Vertical down 3; Vertical up 1; Longitudinal 2; and Transverse 2;

(12) Maximum Gross Weight (pounds) -- 44,800.

(13) Maximum commodity Weight (pounds) -- 27,688.

(14) Tare Weight (pounds) -- 17,112.

(15) Design Specific Gravity -- 1.00

8. SPECIAL PROVISIONS.

a. Shippers may use the packaging(s) covered by this exemption pursuant to the 49 CFR 173.22a.

b. A copy of this exemption must be carried aboard each 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 8733".

d. 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.

e. No product may be shipped that has venting requirements exceeding 34,816 SCFM, or has a specific gravity greater than 1.25. The venting capacity required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) Pamphlet S-1.2.

f. A test report documenting a satisfactory ISO prototype frame test for this tank design must be on file with the OHMT prior to the first shipment.

g. The tank must be filled in accordance with the provisions of 49 CFR 173.315.

h. 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) be retested and reinspected in accordance with the provisions of 49 CFR 173.32b except the use of an approval agency is not required.

i. 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.

9. REPORTING REQUIREMENTS. Any incident involving loss of contents of the package or damage to the packaging must be reported to the OHMT as soon as practicable.

10. EXPIRATION DATE. July 1, 1990.

Issued at Washington, D.C.:

AUG 11 1988

(DATE)

for J. Suzanne Hedgepeth

Alan I. Roberts
Director
Office of Hazardous Materials
Transportation

Address all inquiries to: Director, Office of Hazardous Materials Transportation, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C. 20590. Attention: Exemptions Branch.

Dist: FHWA, FRA, USCG