U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

DOT-E 9841 (EXTENSION)
SECOND REVISION October 26, 1990

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 9841 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to January 31, 1998. 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.

for Marilyn E. Mills
Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

FEB 21 1996
(DATE)

Dist: FHWA FRA USCG

EXEMPTION HOLDER	APPLICATION DATE
Stolt Tank Containers, Inc. Monrovia, Liberia (U.S. AGENT: Stolt-Nielsen, Inc. Greenwich, CT)	January 24, 1996

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DOT-E 9841
(SECOND REVISION)

1. Exsif SA (France), Houston, TX., is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to offer packages of flammable gases, non-flammable gas and flammable liquids for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the shipment of flammable gases, non-flammable gases and flammable liquids in a non-DOT specification IMO Type 5 portable tank 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:

Stolt Tank Container, Inc., Monrovia, Liberia (U.S. Agent Stolt-Nielsen, Inc., Greenwich, CT.)
Green Mountain Explosives, Inc., Auburn, CT.

2. BASIS. This exemption is based on Exsif SA (France) application dated November 20, 1989, submitted in accordance with 49 CFR 107.105 and the public proceeding thereon. The granting of party status is based on the following application(s) submitted in accordance with 49 CFR 107.111 and 107.105 and the public proceeding thereon:

Stolt Tank Container Incorporated's emergency application dated October 19, 1990.
Green Mountain Explosives, Inc.'s application dated July 6, 1990.

3. HAZARDOUS MATERIALS (Descriptor and class). Butane; Butadiene, inhibited; Butylene; Dimethylamine, anhydrous; Isobutane; Isobutane mixtures; Isobutylene; Methylamine; Methyl chloride; Trimethylamine; Vinyl chloride, inhibited; classed as flammable gases; Dichlorofluoromethane (R21); Dichlorodifluoromethane (R12) and Dichlorotetreathane (R114) classed as non-flammable gases; Ethyl chloride classed as a flammable liquid or any other flammable gas, non-flammable gas or flammable liquid specifically identified to, and acknowledged in writing by, the Associate Administrator for the Hazardous Materials Safety (AAHMS) prior to the first shipment.

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

5. REGULATION AFFECTED. 49 CFR 173.315, 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 ASME Code "U" stamped portable tank mounted in an ISO frame designed and constructed in accordance with Consani Cape Steel (PTY) Ltd. drawings nos. CSTD-312, CSTD-306 Rev. C, CSTD-314, CSTD-326, CSTD-385 Rev. A, CSTD-387 and other drawings, technical specifications and calculations on file with the OHMT, and in compliance with the following:

(1) Code - Complies with DOT Specification 51 except that tanks have bottom outlets; IMO Type 5

(2) Insulation - None (Sunshield provided)

(3) Water capacity (U.S. Gallons) - 6,605

(4) Material - SA 737 Gr C or ASTM A737/A737M - 82 Gr C Steel

	(outside dia.)	X (length)	X (thickness)
(5) Tank size (inches)	94.8	237.6	0.402(min)

Head Thickness - 0.419 (min)
Weld Joint Efficiency - 1.0
Corrosion Allowance - 0.0

(6) Design Pressure (psig) - 164 psig

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

(7) Test Pressure - 246 psig

(8) Openings - one (1) - 18.11 inch diameter opening for the manhole opening; two (2) - 3.00 inch openings for the pressure relief valves all located on the top of the tank and one (1) - 3.00 inch opening for the liquid phase and one (1) 2.00 inch opening for the vapor phase loading/unloading valves located on the bottom of the tank.

Note: Each bottom outlet valve must be fitted with a remotely operated internal shut-off valve and be provided with a shear section that meets the requirements of 49 CFR 178.337-12.

(9) Tank surface area (square feet) - 550.

(10) Pressure Relief Devices - Two (2) 3.00 inch diameter spring loaded safety relief valve set at 180 psig; each in series with and outboard of one (1) 3.00 inch rupture disc set at 180 psig. Total relief capacity is 1,765,733 SCFH.

(11) G-Loadings: Vertical down - 2; Vertical up - 1;

(12) Weights:

Drawing No. CSTD-312 -

Maximum Gross weight (pounds) 67,056
Maximum Commodity weight (pounds) 52,074
Tare Weight (pounds) 14,982

Drawing No. CSTD-385 -

Maximum Gross weight (pounds) 67,056
Maximum Commodity weight (pounds) 52,536
Tare Weight (pounds) 14,520

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 vessel and motor vehicle used to transport packages covered by this exemption.

c. 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.

d. No product may be shipped that has venting requirements exceeding that specified in paragraph 7.a. The venting capacity required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) pamphlet S-1.2.

e. 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 once every five (5) years in accordance with 49 CFR 173.32 as prescribed for a DOT Specification 51 portable tank.

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 9841".

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

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

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.

j. DOT-E 9841 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 owner of the tanks covered by this exemption shall provide to the AAHMS a list of all shippers who have shipped under this exemption and a shipping experience report every six months from the effective date of this exemption. The shipping experience report shall contain approximate number of shipments made during the previous six months and any difficulties encountered.

b. The holders of this exemption, as identified in paragraph 1 above, shall contact the AAHMS immediately after any of the tanks covered by this exemption are sold to another party.

c. Any incident involving loss of packaging contents or packaging failure must be reported to the AAHMS as soon as practicable.

10. EXPIRATION DATE. December 31, 1991.

Issued at Washington, D.C.

J. Suzanne Hedgepeth

for Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

OCT 26 1990
(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, FRA, FHWA