U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

DOT-E 10193 (EXTENSION)
THIRD REVISION December 20, 1994

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 10193 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to December 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.

JAN 25 1996

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

(DATE)

Dist: FHWA FRA USCG

EXEMPTION HOLDER	APPLICATION DATE
Stolt Tank Containers Leasing Ltd. Hamilton, Bermuda (U.S. AGENT: Stolt-Nielsen, Inc. Greenwich, CT)	December 1, 1995

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DEC 20 1994

DOT-E 10193
(THIRD REVISION)

1. Stolt Tank Containers Ltd, UK (U.S. Agent: Stolt-Nielsen, Inc., Greenwich, Ct.), is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to offer packages of Division 2.1, 2.2 or class 3 materials for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes shipment of Division 2.1, 2.2 or class 3 materials as specified in paragraph 3 below, in non-DOT specification steel portable tanks and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on Stolt Tank Container Ltd's application dated August 20, 1993 and supplemental letter dated December 10, 1993, submitted in accordance with 49 CFR 107.105.

3. HAZARDOUS MATERIAL (Descriptor and class).

a. Anhydrous ammonia, classed as 2.2;

b. Liquefied petroleum gas; Butane; Butadiene, inhibited; Dimethyl ether; Ethyl chloride; Isobutylene; Methyl chloride; Propylene; Propane; Trimethylamine, anhydrous; Vinyl chloride, inhibited; classed as Division 2.1;

c. Flammable liquid, n.o.s., (1, Hexene) class 3;

d. Methylamine, anhydrous; classed as Division 2.1; and

e. Other Division 2.1, 2.2 and class 3 materials specifically identified to, and approved in writing by, the Office of Hazardous Materials Exemptions and Approvals (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 173.120, 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, mounted in an ISO frame, that complies with DOT Specification 51 including ASME Code "U" stamp except that the fill and discharge openings are located on the bottom of the tank. Each tank is designed and constructed in accordance with HLA Engineers, Inc.'s application dated May 1, 1989 containing Trinity Industries drawing S-41010 and Anderson Company drawings D-S644N2-02, and D-S644N2-06, and supplemental information dated October 2, 1989, 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 that the fill and discharge openings are located on the bottom of the tank.

(2) Material - SA-612 carbon steel.

(3) Water Capacity (US Gallons) - 6,440.

(4) Insulation - Either non-insulated and provided only with sunshield, or insulated in accordance with Anderson drawing number D-168-00 dated 6/19/91.

(5) Baffles - None

(6) Tank Size (inches) -

(outside diameter)	x	(length)	x	(thickness)
94.482		236.0		0.741(min)

Head Thickness - 0.735 (min.)

Weld Joint Efficiency - 1.0

Corrosion Allowance - 0.0

(7) Design pressure - 319 psig

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

(8) Test pressure - 479 psig (Minimum)

(9) Openings - One (1) opening for an 18 inch diameter manway and one (1) opening for a 3 inch diameter pressure relief device on top of the tank; one (1) opening for a 2 inch diameter vapor phase valve and one (1) opening for a 2 inch diameter liquid phase valve on the bottom of the tank.

c. Each tank must (i) be visually inspected prior to each shipment to ensure that it has not been damaged on the previous trip; 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 10193".

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 9,177 SCFM. 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.

l. "DOT-E 10193" must be stamped on the metal manufacturer's data plate on the line which reads "U.S. DOT Specification No.".

m. The following additional requirements apply to the transportation of methylamine, anhydrous:

1. For highway transportation, each motor carrier used to transport packagings authorized by this exemption must have a "Satisfactory"

safety rating, as prescribed by part 385 of 49 CFR. Written verification of the safety rating for each motor carrier must be obtained at least once each year. A copy of the safety rating notification letter for each motor carrier, as received from FHWA's Office of Motor Carrier Field Operations (OMCFO) must be submitted with the annual report required by this exemption;

2. In addition to the requirements of 49 CFR 171.15 and 171.16, the Office of Hazardous Materials Exemptions and Approvals (OHMEA) must be notified of any incident involving damage to the packaging or loss of contents of materials shipped under this exemption;

3. OHMEA shall be advised of the causes of the incident and any remedial action taken, as a result of the incident as soon as practical after its occurrence; and

4. OHMEA must be advised annually, within 30 days after the end of the calendar year, of the shipping experience of the material covered by this exemption. Failure to comply may result in the immediate suspension of this exemption.

n. "Ammonia solutions", UN 1005, must be marked on bulk packages as specified in 49 CFR 172.326.

9. 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. Section 5101 et seq.:

- All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

- Registration required by 49 CFR 107.601 et seq., when applicable.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect unless a regulation has been amended making the exemption no longer necessary.

10. REPORTING REQUIREMENTS.

a. 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. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.)

b. 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.

11. EXPIRATION DATE. January 31, 1996.

Issued at Washington, D.C.

DEC 20 1994

(DATE)

Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

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: DHM-31.

Dist: USCG, FHWA, FRA.