

April 12, 2006



U.S. Department  
of Transportation

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

**Pipeline and  
Hazardous Materials  
Safety Administration**

DOT-SP 8650  
(FOURTEENTH REVISION)

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: (See individual authorization letter)
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of certain materials listed in paragraph 6 below in non-DOT specification steel portable tanks. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
  - c. Unless otherwise stated herein, this special permit consists of the special permit authorization letter issued to the grantee together with this document.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.242(c), 173.243(c), 173.244(c) and 174.63(c)(1) in that non-DOT specification portable tanks specified are not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of Ethyl Corporation dated March 21, 2006, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Flammable liquids, n.o.s. (contains petroleum distillates)	3	UN1993	III
Flammable liquids, toxic, n.o.s. (xylene; methylcyclopentadienyl manganese tricarbonyl)	3	UN1992	III
Metal carbonyls, liquid, n.o.s. (Methylcyclopentadienyl manganese tricarbonyl)	6.1	UN3281	II
Motor fuel anti-knock mixtures	6.1	UN1649	I

7. SAFETY CONTROL MEASURES: Prescribed packaging is a non-DOT specification portable tank, mounted in ISO frame, designed and constructed in accordance with Westerwalder Eisenwerk drawings CS-529/0 Rev. A dated June 23, 1980, CS-529/3 Rev. A, other drawings, calculations and technical specifications on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA) dated after June 26, 1980.

a. Code - Designed to ASME but not marked and otherwise conforms to DOT Specification 51 but not so marked.

b. Insulation - none

c. Water Capacity (U.S. Gallons) - 2,890

d. Material - West German fine grain carbon steel St E 36 equivalent to ASTM A516 grade 70

(outside dia) x (length) x (thickness)

e. Tank Size  
(inches) -           62.99           232.28           0.3937

Head Thickness - 0.3937

Weld Joint Efficiency - 1.0

f. Design Pressure (PSIG) - 100

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

g. Test Pressure, Minimum (PSIG) - 150

h. Openings - One (1) 20-inch diameter manhole containing filling and discharge connection, vent connection, safety valve connection, fusible element connection and a blank flange on top; no bottom outlets.

i. Tank surface area (square feet) - 334

j. Safety relief devices:

(1) One (1) 1.0-inch diameter spring loaded safety relief valve in series with and outboard of a rupture disc both set at 100 psig with a relief capacity of 92,760 SCFH and one (1) 2.0-inch diameter fusible element with a fusing temperature of 250°F and a relief capacity of 235,638 SCFH. Total relief capacity is 328,938 SCFH; or

(2) One (1) 1.5-inch diameter spring loaded safety relief valve in series with and outboard of a rupture disc both set at 100 psig with a relief capacity of 144,240 SCFH.

k. G-Loadings Vertical down 2; Vertical up 2; Longitudinal 3.5; and Transverse 1.5.

l. Maximum Gross Weight (pounds) - 55,000

m. Maximum Commodity Weight (pounds) - 43,540

n. Tare Weight, nominal (pounds) - 11,460

o. Design Specific Gravity - 1.58

8. SPECIAL PROVISIONS:

a. 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-SP 8650".

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b. Hydrostatic test certificates for each tank must be kept on file by the manufacturer or owner at its principal business office and be made available to a DOT representative upon request.

c. No product may be shipped that has venting requirements exceeding the capacity of the installed safety relief devices, or has a specific gravity greater than 1.97. The venting capacity required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) pamphlet S-1.2.

d. Each portable tank must be marked with the appropriate proper shipping name listed in paragraph 6 of this special permit.

e. The tank must be filled so as not to be liquid full at less than or equal to 130°F.

f. Each tank must be (i) visually inspected prior to each trip to ensure that it has not been damaged on the previous trip; (ii) visually inspected at least once every 2-1/2 years as prescribed for IM 101 portable tanks in § 180.605(d), except that an internal inspection is not required; (iii) reinspected once every five years in accordance with § 180.605(e), as prescribed for a DOT Specification 51 portable tank, except an internal inspection is not required provided an ultrasonic thickness test is performed; and (iv) retested once every five years in accordance with § 180.605(e) as prescribed for a DOT Specification 51 portable tank. Ultrasonic thickness testing used as an alternative to an internal inspection must be performed in conformance with applicable procedures specified for thickness testing of cargo tanks as set forth in § 180.407(i).

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

(1) Portable tanks must be equipped to be securely attached to a railcar equipped with an ISO standard COFC basic pedestal system designed for container support and securement;

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(2) Each railcar used to transport portable tanks must be equipped with a cushioning system that meets the requirements of the Association of American Railroads Specification M-952-82; and

(3) Shipments made under this special permit must be in accordance with § 174.84.

h. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.

i. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

j. Packagings permanently marked 'DOT-E 8650', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked 'DOT-SP 8650'.

k. Shipping papers displaying 'DOT-E 8650' may continue to be used until October 1, 2007, provided the special permit remains valid.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight and cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
  - o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

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- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

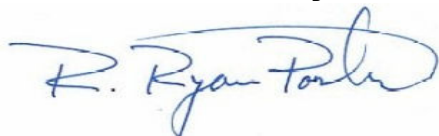
Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when the special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term 'exemption' to 'special permit' and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

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Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm) Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

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