

August 24, 2006



U.S. Department  
of Transportation

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

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 10984  
(EIGHTH 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 specially-designed UN 1A1 steel drums for the shipment of dichlorosilane, subject to the limitations and special requirements specified herein. 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 § 173.304a(d) in that the packaging is not authorized, except as specified herein.
5. BASIS: This special permit is based on the application of BOC Gases dated September 13, 2004, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Dichlorosilane	2.3	UN 2189	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a specially-designed UN 1A1 steel drum, designed, constructed, and "U" or "UM" stamped in accordance with the ASME Code Section VIII. Each drum, except for the 5 liter (0.5 gallon) capacity drum, is equipped with a protective skirt and cover. Drums must meet the following minimum criteria:

Drawing	5GAIRC O Rev. J	5lbAIR CO Rev. K	55AIRC O Rev. H	10GAIR CO Rev. S	C501- 1288- 00 Rev. H	D501- 3966-00 Rev. L
Capacity (gallons)	5	0.5	55	10	10	55
Thickness (inches)	0.135	0.109	0.165	0.135	0.105	0.135
Material	316L	316L	316L	316L	316L	316L
MAWP (psig)	120	45	115	120	100	100
Hydrostatic Test (psig)	180	68	173	180	150	150

b. TESTING - Drums certified to the UN 1A1 standard must be tested in accordance with 49 CFR Subpart M of Part 178, at the Packing Group I level for liquids. Minimum hydrostatic test pressure is as indicated in the table above. Each drum must successfully pass a leakproofness test at the MAWP indicated in the table above.

c. Sufficient outage must be provided so that the packaging will not be liquid full at 130°F.

d. When shipping drums that are not overpacked, the shipper must load the drums, block and brace the drums for transportation in accordance with a prepared plan which precludes stacking (double decking) and must seal the freight container or vehicle used. Shipments must be from one origin to one destination only. No intermediate pickup or delivery is authorized.

e. When shipping drums that are overpacked, the overpack must be a UN 1A2 or UN 1H2 drum meeting the applicable requirements of § 173.227(b).

8. SPECIAL PROVISIONS:

a. 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.

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

c. MARKING - In addition to the UN 1A1 markings (as required by § 178.503), each drum must be marked "DOT-SP 10984."

d. Packagings permanently marked 'DOT-E 10984', 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 10984'.

e. Shipping papers displaying 'DOT-E 10984' may continue to be used until October 1, 2007, provided the special permit remains valid.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or 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.
  - 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 this 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.:

A handwritten signature in blue ink, appearing to read "R. Ryan Taylor", is written over a faint, illegible stamp.

for Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

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.

PO: KFW/sln