



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

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

JAN 21 2003

DOT-E 10984
(SIXTH REVISION)

EXPIRATION DATE: November 30, 2004

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: BOC Gases
Murray Hill, NJ

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption 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 exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

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 exemption is based on the application of BOC Gases dated December 20, 2002, 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	51bAIR 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 exemption who receives a package covered by this exemption 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 exemption and the HMR.

b. A current copy of this exemption 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-E 10984."

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

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this exemption.

11. 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. 5101 et seq.:

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

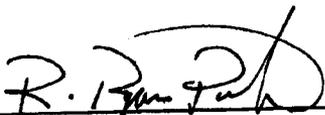
o Registration required by § 107.601 et seq., when applicable.

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

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.

12. **REPORTING REQUIREMENTS:** The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



Robert A. McGuire
for Associate Administrator for
Hazardous Materials Safety

JAN 21 2003

(DATE)

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

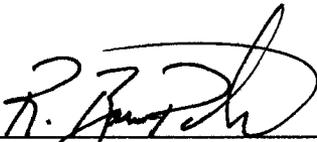
Copies of this exemption may be obtained by accessing the Hazardous Materials safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: KFW/alb

JUN 17 2004

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Airgas, Inc. Cheyenne, WY	May 23, 2004	JUN 17 2004	Nov 30, 2004
BOC Gases Murray Hill, NJ	Dec 20, 2002	Jan 21, 2003	Nov 30, 2004
Matheson Tri-Gas Inc. East Rutherford, NJ	Dec 09, 2002	Dec 20, 2002	Nov 30, 2004



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Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety