



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

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

FEB 5 2003

DOT-E 11780
(FOURTH REVISION)

EXPIRATION DATE: January 31, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Agilent Technologies
Loveland, CO

2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, mark, sale and use of certain x-ray systems containing sulfur hexafluoride for transportation in commerce. 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: The labeling requirements in § 172.400(a) except when offered for transportation by air, the placarding requirements in § 172.500(a), and § 173.304a(a)(2) and § 175.3 in that the prescribed packaging is not listed as an authorized packaging, except as specified herein.

5. BASIS: This exemption is based on the application of Agilent Technologies, Inc. dated December 17, 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
Sulfur hexafluoride	2.2	UN1080	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are x-ray assemblies, consisting of a non-DOT specification pressure vessel, an x-ray tube and other instrumentation. The sulfur hexafluoride is contained in the pressure vessel.

- (1) The pressure vessel must be designed, constructed, certified and stamped in accordance with Section VIII, Division 1 of the ASME Code with a maximum allowable working pressure of 90 psig.
- (2) The pressure vessel may not be charged with sulfur hexafluoride to a pressure exceeding 65 psig at 70°F. Additionally, the pressure vessel must be equipped with a pressure relief device with a maximum set pressure of 90 psig.
- (3) The x-ray assembly must be in accordance with Hewlett-Packard drawing D-E7200-67969-1 on file with the Office Hazardous Materials Exemptions and Approvals (OHMEA).

b. TESTING -

- (1) Each pressure vessel must be pressure tested to at least 135 psig.
- (2) Each pressure vessel must be checked for leaks prior to shipment.

c. OPERATIONAL CONTROLS - Individual pressure vessels must be overpacked in strong outside containers. X-ray assemblies must be shipped in closed motor vehicles. When so packed, the pressure vessels or assemblies are exempt from labeling, except when offered for transportation by air, and from placarding.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

- b. A person who is not a holder of this exemption, but 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 offered for transportation in conformance with this exemption and the HMR.
- c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals Program for a specific manufacturing facility.
- e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.
- f. MARKING - Each outside packaging must be marked "DOT-E 11780".
- g. This exemption serves as a Competent Authority Approval (CA-9709001) by the Associate Administrator for Hazardous Materials Safety of the United States Department of Transportation, issued in accordance with paragraph 7.9 of the International Maritime Dangerous Goods (IMDG) Code and Part 1;1.2 of the International Civil Aviation Organization's Technical Instructions (ICAO TI).
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger-carrying aircraft.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.
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:

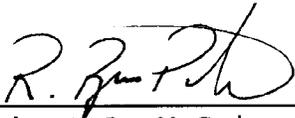
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

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 and 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 also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



FEB 5 2003

(DATE)

for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

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: CWFreeman/alb