



U.S. Department
of Transportation

Research and
Special Programs
Administration

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

DOT-E 11516
(THIRD REVISION)

EXPIRATION DATE: **January 15, 1997**
See Appendix A for additional grantees
expiration date(s).

(FOR RENEWAL, SEE 49 CFR SECTION 107.105)

1. GRANTEE: Falcon Safety Products, Inc., Somerville, New Jersey

(See Appendix A of this document for a list of additional grantees)
2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain DOT Specification 2Q containers containing difluoroethane or Tetrafluoroethane Dimethylether mixtures. This exemption provides no relief from any regulation other than as specifically stated herein.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR Part 173.304(a) only in that DOT Specification 2Q containers are not listed as authorized packagings. 49 CFR Part 172, subpart C unless transported by air; Part 172 subpart E unless transported by air; Part 172 subpart F; Part 174; and Part 177.
5. BASIS: This exemption is based on the applications of Falcon Safety Products, Inc. dated September 28, 1995 and October 24, 1995, submitted in accordance with 49 CFR 107.103 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Tetrafluoroethane and Dimethylether mixtures (each chemical must make up at least 30% but no more than 70% of the contents) - Compressed gases, flammable, n.o.s	2.1	UN1954	N/A
Difluoroethane, R152a	2.1	UN1030	N/A



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7. PACKAGING AND SAFETY CONTROL MEASURES:

- a. PACKAGING - Packagings prescribed are DOT Specification 2Q containers not exceeding 530 ml capacity. Containers must be shipped as follows:
- (1) The maximum permitted filling density is 79 percent. In addition, the liquid portion of the gas must not completely fill the container at any temperature up to and including 130°F.
 - (2) The pressure in the container must not exceed 65 psig at 70°F and 180 psig at 130°F.
 - (3) The container must be capable of withstanding without bursting a pressure of one and one-half times the equilibrium pressure of the content at 130°F.
 - (4) The containers must be packed in strong outside packagings:
 - (5) Each package may not exceed 66 pounds gross weight.
- b. TESTING - Each completed container filled for shipment must have been heated until the pressure in the container is equivalent to the equilibrium pressure of the content at 130°F without evidence of leakage, distortion, or other defect.
- c. OPERATIONAL CONTROLS - Shipments are not subject to the shipping paper requirements of subpart C of part 172 unless offered for transportation by aircraft. Shipments are not subject to the labeling requirements of subpart E of part 172 except when offered for transportation by air. The CARGO AIRCRAFT ONLY label must be printed or affixed to a surface (other than the bottom) of each package in proximity to the required marking and labeling on each package intended for transportation by air. Shipments are not subject to the placarding requirements of subpart F of part 172, to part 174 and to part 177.
- d. MARKING - All outer packages must be marked in accordance with the marking requirements of Subpart D of Part 172 and "DOT-E 11516". After June 30, 1996, each 2Q container must be marked "DOT-E 11516".

8. SPECIAL PROVISIONS:

a. Persons who receive the packages covered by this exemption may reoffer them for transportation provided no modifications or changes are made to the packages, all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

b. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo only aircraft.10. MODAL REQUIREMENTS:

A copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption. In accordance with the provisions of 49 CFR Part 107, Appendix B to Subpart B, paragraph 3, the shipper shall furnish a 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. Section 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 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.

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. (49 CFR 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.