



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

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

**OCT 6 2004**

DOT-E 12573  
(THIRD REVISION)

EXPIRATION DATE: August 31, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: United States Can Company  
Elgin, IL
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes the manufacture, marking, sale and use of a non-refillable, non-DOT specification inside metal container conforming with all regulations applicable to a DOT specification 2Q, except as specified herein, for the transportation in commerce of the materials authorized by this exemption. 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 § 173.304(d) and § 173.306(a)(3) in that the prescribed packaging is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of United States Can Company 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
Aerosols, non-flammable	2.2	UN1950	n/a
1,1,1,2 Tetrafluoroethane or Refrigerant gas R 134a	2.2	UN3159	n/a

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-refillable, non-DOT specification inside metal container conforming with United States Can Company drawing numbers 202VCND and 200PRM on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and DOT Specification 2Q (§ 178.33a) except as follows:

§ 178.33a-2 *Type and size.*

(a) \* \* \*

(b) The maximum capacity of the containers manufactured under this exemption may not exceed 23.8 cubic inches (13.3 fluid ounces). The maximum diameter may not exceed 2.1 inches.

§ 178.33a-6 *Manufacture.*

(a) \* \* \*

(b) \* \* \*

(c) Ends: The dome must be equipped with a pressure relief mechanism (PRM) consisting of radial scores on the top double seam, as depicted in the drawing on file with the OHMEA. The bottom must be designed to buckle at pressures greater than the pressure at which the dome buckles and vents.

§ 178.33a-7 *Wall thickness.*

(a) The minimum wall thickness for containers manufactured under this exemption is 0.0085 inches.

§ 178.33a-8 *Tests.*

(a) Each 2500 containers or less, successively produced as a batch or part thereof must constitute a lot. Two containers, one with a PRD and one without a PRD, taken randomly from each lot and complete with the ends assembled must be pressure tested to destruction.

For containers fitted with a PRD, the dome may not buckle below 220 psig. Upon buckling, the dome must vent, and the bottom may not buckle. The burst pressure of containers without a PRD may not be less than 320 psig.

(b) If either of the test containers fails to meet the above requirements, the lot must be rejected. However, an additional 5 randomly selected pairs of containers from that lot may be pressure tested to qualify that lot. If any of the additional test containers fail the pressure test, that lot must be rejected.

§ 178.33a-9 *Marking.*

(a) \* \* \*

(1) Containers must be marked "DOT-E 12573" in lieu of "DOT 2Q".

(2) \* \* \*

b. TESTING - Prior to shipment, each completed container must be heated until the pressure in the container is equivalent to the equilibrium pressure of the lading at 130° F. Lading equilibrium pressure may not exceed 198 psig at 130° F. Acceptable containers must show no evidence of leakage, distortion or other defect.

c. OPERATIONAL CONTROLS Each packaging must be prepared and shipped in accordance with the following:

(1) The liquid content of the lading may not completely fill the container at 130° F.

(2) The container must be packed in a strong outside packaging as prescribed in § 173.301(a)(9).

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 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 "INSIDE CONTAINERS COMPLY WITH DOT-E 12573".

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

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each aircraft and cargo vessel 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:

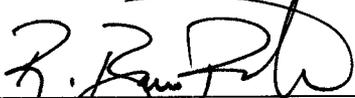
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this 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 this 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.



*fe* Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

**OCT 6 2004**

(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.

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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: cwf/am