U.S. Department
of Transportation

**Research and
Special Programs
Administration**

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

DOT-E 10762 (EXTENSION)
ORIGINAL November 20, 1992

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 10762 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to May 31, 1998. This change is effective from the issue date of this extension. All other terms of the exemption remain unchanged.

This extension applies only to party(ies) listed below based on the application(s) received in accordance with 49 CFR 107.105. This extension constitutes a necessary part of this exemption and must be attached to it.

for Marilyn J. Morris
Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

JUN 18 1996
(DATE)

Dist: FHWA FRA USCG FAA

EXEMPTION HOLDER	APPLICATION DATE
Advanced Monobloc Corporation Hermitage, PA	April 22, 1996

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NOV 20 1992

DOT-E 10762

1. Advanced Monobloc Corporation, Hermitage, Pennsylvania, is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations to manufacture, mark and sell the packaging described in paragraph 7 below for use in the transportation in commerce of the hazardous materials described in paragraph 3 below, subject to the limitations and special requirements specified herein. This exemption authorizes the use of a non-DOT specification cylinder which meets the requirements of a DOT Specification 39 cylinder with certain exceptions for the transportation of chlorodiflouromethane, and provides no relief from any regulation other than as specifically stated.

2. BASIS. This exemption is based on Advanced Monobloc Corporation's application dated March 24, 1992 and additional information dated May 13 and June 16, 1992, submitted in accordance with 49 CFR 107.103 and the public proceeding thereon.

3. HAZARDOUS MATERIALS (Descriptor and class). Chlorodi-flouromethane, classed as a nonflammable gas, Division 2.2. (NOTE: Effective October 1, 1993, the appropriate numeric hazard class or division description must be used in place of the written hazard class description.)

4. PROPER SHIPPING NAME (49 CFR 172.101). Chlorodi-flouromethane.

5. REGULATION AFFECTED. 49 CFR 173.304(a), 175.3, and 178.65.

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

7. SAFETY CONTROL MEASURES. Packaging prescribed is a non-reusable, non-DOT specification seamless aluminum cylinder. The cylinder is fabricated by an impact extrusion method and has a crimped top closure. The cylinder design employs a compression molded rubber Pressure Relief Mechanism (PRM) in the center of the inverted base. The cylinder must conform with Advanced Monobloc Corporation's drawings, test reports, and design data submitted with the application and on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA). The container must also conform with the DOT Specification 39 (49 CFR 178.65) except as follows:

178.65-2 Type, size, service pressure, and test pressure.

(a) Type: Cylinder of seamless type fabricated from the impact extrusion method with top attached by means of a circumferential mechanical joint.

(b) Size limitation: Diameter of 2.598 inch maximum and length ranging from 4.530 inch to 9.252 inch maximum. The water capacity range is from 18.3 cubic inches to a maximum volume of 43.25 cubic inches.

(c) Service pressure is 240 psig maximum.

(d) Test pressure is 300 psig minimum.

(e) * * *

178.65-4 Duties of inspector.

(a) The inspector must determine that all material used complies with the requirements of this exemption.

(b) * * *

(c) The inspector must determine that each cylinder is made and marked in compliance with this exemption by:

* * *

178.65-5 Aluminum.

(a) Material must be 1070 aluminum alloy free of seams, cracks, laminations, or other injurious defects.

(b) Material used must be identified by any suitable method.

178.65-6 Manufacture.

(a) * * *

(b) * * * (1) Mechanical joints must have strength equal to or greater than the minimum strength of the shell material in the finished cylinder.

178.65-7 Wall Thickness.

* * * The minimum wall thickness must be 0.031 inch.

178.65-10 Pressure relief devices.

The pressure relief mechanism (PRM) consists of a diaphragm integrated into a molded rubber part which is designed to rupture within a specific pressure range. One cylinder must be taken from the beginning of production of each lot and pressurized until the PRM functions. If the PRM fails to function between 315 and 480 psig, the lot represented by the test must be rejected.

178.65-11 Pressure tests.

(a) Each cylinder must be tested at an internal pressure of at least 300 psig.

* * * * *

(b) (2) A failure initiates in a mechanical joint.

* * * * *

178.65-14 Markings.

(a) * * *

(b) Cylinder must be marked "DOT-E 10762" in lieu of DOT-39.

(c) * * *

(d) * * *

178.65-15 Inspector's report.

(b) Add: The report must be modified to accommodate the deviations from DOT Specification 39 that are authorized herein.

8. SPECIAL PROVISIONS.

a. Filling density may not exceed 105 percent.

b. Offerors for transportation of hazardous materials specified in this exemption may use the packaging described in this exemption for the transportation of such hazardous materials so long as no modifications or changes are made to the packages, all terms of this exemption are complied with, and a copy of the current exemption is maintained at each facility from which such offering occurs.

c. Shippers using the packaging covered by this exemption must comply with the shipping paper, marking, labeling,and placarding requirements of 49 CFR Part 172; all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

d. A copy of this exemption, in its current status, must be maintained at each manufacturing facility at which this packaging is manufactured and must be made available to a DOT representative upon request.

e. 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 for a specific manufacturing facility.

f. Each container must be overpacked for shipment in accordance with 49 CFR 173.301(k)(1).

g. A copy of this exemption must be carried aboard each cargo vessel used to transport packages covered by this exemption.

h. 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. In addition a copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption.

9. REPORTING REQUIREMENTS. Any incident involving loss of packaging contents or packaging failure must be reported to the Associate Administrator for Hazardous Materials Safety as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.)

10. EXPIRATION DATE. June 30, 1994.

Issued at Washington, D.C.:

Alan I. Roberts
Associate Administrator for
Hazardous Materials Safety

NOV 20 1992
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C., 20590. Attention: Exemptions Program.

Dist: FHWA, FAA, FRA, USCG.