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

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

DOT-E 3996 (EXTENSION)
FIRST REVISION January 17, 1990

In accordance with 49 CFR 107.105 of the Department of Transportation (DOT) Hazardous Materials Regulations DOT-E 3996 is hereby extended for the party(ies) listed below by changing the expiration date in paragraph 10 to September 30, 1993. 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.

J Suzanne Hedgpeth
for Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

OCT 31 1991
(DATE)

Dist: FHWA FRA

EXEMPTION HOLDER	APPLICATION DATE
Rhone-Poulenc Basic Chemicals Company Shelton, CT	September 26, 1991

U.S. Department of Transportation
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JAN 17 1990

DOT-E 3996
(FIRST REVISION)

1. Stauffer Chemical Company (SCC), Westport, Connecticut, is hereby granted an exemption from certain provisions of this Department's Hazardous Materials Regulations specified in paragraph 5 below to offer packages prescribed herein of a corrosive material for transportation in commerce subject to the limitations and special requirements specified herein. This exemption authorizes the shipment of phosphoric anhydride in DOT Specification 6K metal drums, and non-DOT specification metal drums, and provides no relief from any regulation other than as specifically stated. The following is hereby granted the status of a party to this exemption:

Rhone-Poulenc Basic Chemicals Co., Shelton, Connecticut - PTE - 1.

2. BASIS. This exemption is based on SCC's applications dated March 4, 1982, and October 3, 1989, submitted in accordance with 49 CFR 107.103 and 107.105 and the public proceeding thereon. The granting of party status is based on the following application submitted in accordance with 49 CFR 107.111 and 107.105 and the public proceeding thereon:

Rhone-Poulenc's application dated October 3, 1989.

3. HAZARDOUS MATERIALS (Descriptor and class). Phosphoric anhydride, classed as a corrosive material.

4. PROPER SHIPPING NAME (49 CFR 172.101). Phosphoric anhydride.

5. REGULATION AFFECTED. 49 CFR 173.188.

6. MODES OF TRANSPORTATION AUTHORIZED. Motor vehicle and rail freight.

7. SAFETY CONTROL MEASURES. Packaging prescribed is a removable head steel drum which is one of the following:

a. A DOT Specification 6K metal drum having net weight not over 600 pounds. Authorized only for carload or truckload shipments loaded by the shipper and unloaded by the consignee or his duly authorized agent. For gross weights exceeding 480 pounds, the shipper must have established that the drum is capable of meeting the drop test requirements in § 178.100-11 (Specification 6J); or

b. A non-DOT specification removable head steel drum having net weight not over 600 pounds. Authorized only for carload or truckload shipments loaded by the shipper and unloaded by the consignee or his duly authorized agent. Drums must be in conformance with the following:

i. Rated capacity. Rated capacity is 55 gallons. Actual capacity of drum may not be less than 55 gallons plus 2 percent, nor greater than 55 gallons plus 2 percent plus 2 quarts.

ii. Composition. Sheets for body and heads to be low carbon, open hearth, or electric steel.

iii. Parts and dimensions as follows:

Marked capacity	55 gallons
Authorized net weight	600 pounds
Type of container	Straight side
Rolling hoops-type	Rolled or swedged-in hoops

Minimum thickness (body and head)		18 gauge
	Nominal thickness	0.0478-inch
	Minimum thickness	0.0428-inch

iv. Closures

(A) Adequate to prevent leakage; gaskets required. Closures must be of screw-thread type or secured by positive fastening.

(B) Closing part (plug, cap, plate, etc., see Note 1) must be of metal as thick as prescribed for head of container.
Note 1: This does not apply to cap seal over a closure which conforms with all requirements.

v. Defective containers. Leaks and other defects to be repaired by method used in constructing container, not by soldering.

vi. Marking. Each drum must be marked by embossing on the permanent head with 3/4-inch minimum size, clearly legible raised characters as follows:

(A) DOT-E 3996-***; stars to be replaced by the authorized net weight (for example, DOT-E 3996-600, etc.)

(B) If the drum is manufactured of stainless steel, the type of steel used in body and head sheets, as identified by American Iron and Steel Institute type number, and also the letters HT following steel designation on containers subjected to stress relieving or heat treatment during manufacture (for example, DOT-E 3996-600-304 or DOT-E 3996-600-304HT as applicable), shall be shown.

(C) Name or symbol of person making the marks specified in paragraph 7.b.vi (A) and (B). Symbol, if used, must be registered with the Director, Office of Hazardous Materials Transportation (OHMT).

(D) Gauge of metal in thinnest part, rated capacity in gallons, and year of manufacture (for example, 18-55-89).

(E) Each packaging manufactured in accordance with the requirements of this exemption must be marked in a manner which identifies the physical location (city and state) of the facility at which it is manufactured.

vii. Type tests. Samples taken at random and closed as for use, shall withstand prescribed tests without leakage. Tests to be made of each type and size at the start of production and to be repeated every 4 months. Samples last tested are to be retained until further tests are made or for 1 year, whichever period is shorter. The type tests are as follows:

(A) Test by dropping, filled with dry, finely powdered material to the authorized net weight, from height of 4 feet onto solid concrete so as to strike diagonally on top chime, or when without chime seam, to strike on other circumferential seam; also additional drop test on any other parts which might be considered weaker than the chime. Closing devices and other parts projecting beyond chime or rolling hoops must also be capable of withstanding this test.

(B) Hydrostatic pressure test of 15 pounds per square inch sustained for 5 minutes.

viii. Leakage test. Each container shall be tested, with seams under water or covered with soapsuds or heavy oil, by interior air pressure of at least 7 pounds per square inch. Equally efficient means of testing are authorized upon approval by the Director, OHMT. Leakers shall be rejected or repaired and successfully retested. Removable head containers not required to be tested with heads in place except that samples taken at random and closed as for use, of each type and size, must be tested at start of production, and repeated every 4 months. Samples last tested to be retained until further tests are made or for 1 year, whichever period is shorter.

8. SPECIAL PROVISIONS.

a. Persons who receive packages covered by this exemption may reship them pursuant to the provisions of 49 CFR 173.22a.

b. 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.

9. REPORTING REQUIREMENTS. Any incident involving loss of contents of the package or packaging failure must be reported to the Office of Hazardous Materials Transportation as soon as practical.

10. EXPIRATION DATE. November 30, 1991.

Issued at Washington, D.C.:

JAN 17 1990

Alan I. Roberts (DATE)
Director, Office of Hazardous Materials Transportation

Address all inquiries to: Director, Office of Hazardous Materials Transportation, Research and Special Programs Administration, U.S. Department of Transportation, Washington, D.C. 20590. Attention: Exemptions Branch.

Dist: FHWA, FRA.