



DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS REGULATIONS BOARD
WASHINGTON, D.C. 20590

5421

[Docket No. HM-72; Amdt. 173-45]

PART 173—SHIPPERS

Phosphorus Oxychloride and Phosphorus Trichloride in Cargo Tanks

The purpose of this amendment to § 173.271 of the Department's Hazardous Materials Regulations is to authorize the use of specifications MC 310, MC 311, MC 312 cargo tanks fabricated wholly of type 316 stainless steel for the shipment of phosphorus oxychloride, to make some editorial changes, and to authorize phosphorus trichloride in these same specification tanks when clad with type 316 stainless steel.

On December 17, 1970, the Hazardous Materials Regulations Board published a notice of proposed rule making, Docket No. HM-72; Notice No. 70-27 (35 F.R. 19121) proposing to amend the regulations for phosphorus oxychloride as stated above. In this proposal, the Board recommended use of tanks clad with type 316 stainless steel for phosphorus oxychloride only.

One commenter pointed out that since phosphorus oxychloride is more corrosive than phosphorus trichloride, the tank clad with type 316 stainless steel should also be adequate for phosphorus trichloride service. The Board agrees and has incorporated the change in this amendment.

In consideration of the foregoing, 49 CFR Part 173 is amended as follows:

In § 173.271 paragraph (a) (8) is amended; paragraphs (a) (13), (14), and (15) are canceled as follows:

§ 173.271 Phosphorus oxybromide, phosphorus oxychloride, phosphorus trichloride, and thiophosphoryl chloride.

(a) * * *

(8) Specification MC 310,¹ MC 311,¹ or MC 312 (§§ 178.340, 178.343). Tank motor vehicles, subject to the following conditions:

(i) Lead-lined or nickel-lined tanks. If nickel-lined, the lining must consist of at least one thirty-second inch of un-

contaminated nickel at all points including rivets, welds and other joints, and edges of tank plates.

(ii) Tanks fabricated from type 316 stainless steel, or clad with type 316 stainless steel having a minimum thickness of 0.2 times the design thickness of the parent metal, are authorized only for phosphorus oxychloride and phosphorus trichloride.

(iii) Tanks made from type 304 or 347 stainless steel. Authorized only for phosphorus trichloride.

(iv) Specification MC 311¹ or MC 312 tank motor vehicles only. Tanks must be constructed of nickel at least 99 percent pure with all cast metal parts of the tank in contact with the lading having a minimum nickel content of approximately 96.7 percent. Authorized only for phosphorus oxychloride and phosphorus trichloride.

* * *
(13) [Canceled]
(14) [Canceled]
(15) [Canceled]
* * *

This amendment is effective June 10, 1971, however, compliance with the regulations, as amended herein, is authorized immediately.

(Secs. 831-835 of title 18, U.S.C., sec. 9, Department of Transportation Act, 49 U.S.C. 1657)

Issued in Washington, D.C., on March 17, 1971.

C. R. BENDER,
Admiral, U.S. Coast Guard,
Commandant.

ROBERT A. KAYE,
Director, Bureau of Motor Car-
rier Safety, Federal Highway
Administration.

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¹ Use of existing cargo tanks authorized, but tanks of new construction not authorized for use