



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

Hazardous Materials Regulations  
Board

[ 49 CFR Part 173 ]

[Docket No. HM-35; Notice No. 69-23]

TRANSPORTATION OF HAZARDOUS  
MATERIALS

Flammable Liquids in MC 330 and MC  
331 Cargo Tanks; Emergency Dis-  
charge Controls for Cargo Tanks

The Hazardous Materials Regulations Board is considering amending the Department's Hazardous Materials Regulations to (1) authorize specification MC 330 and MC 331 cargo tanks for transporting certain flammable liquids for which those tanks are not presently authorized, (2) require the bottom outlets on MC 330 and MC 331 cargo tanks currently prescribed in §§ 173.123, 173.134, 173.136, and 173.141 to be equipped with valves conforming with § 178.337-11(c), and (3) require bottom outlets on MC 304 cargo tanks in flammable liquid service to be equipped with valves conforming with § 178.342-5(a).

For several years MC 330 cargo tanks, used primarily in compressed gas service, have been authorized for the transportation of ethyl chloride, pyroforic liquids, methyl dichlorosilane, trichlorosilane, and various mercaptans. On the basis of the satisfactory experience in the service of these flammable liquids and on the basis of a special permit for the transportation of flammable liquids, n.o.s., in MC 330 cargo tanks, it appears that MC 330 and MC 331 cargo tanks are suitable for the general category of flammable liquids not otherwise specified.

Specification MC 330 and MC 331 cargo tanks currently authorized in §§ 173.123, 173.134, 173.136, and 173.141 are required to be equipped with suitable automatic excess flow valves or automatic quick closing internal valve but are not required to have emergency discharge controls for operation in the event of fire or other accident. To provide the level of safety generally provided for cargo tanks that are presently used primarily in flammable liquid service the Board believes that bottom outlets on MC 330 and MC 331 cargo tanks should be equipped with valves employing a secondary closing means remote from tank filling or discharge openings.

In addition, the Board believes that MC 304 cargo tanks currently in flammable liquid service should employ emergency discharge controls similar to those used by other types of specification cargo tanks used primarily in the service of flammable liquids. Accordingly, it is proposed to require the bottom outlets on these cargo tanks to be equipped with valves conforming with the emergency discharge controls specified for MC 307 cargo tanks.

Interested persons are invited to give their views on this proposal. Communications should identify the docket number and be submitted in duplicate to the Secretary, Hazardous Materials Regulations Board, Department of Transportation, 400 Sixth Street SW., Washington, D.C. 20590. Communications received on or before December 9, 1969, will be considered before final action is taken on the proposal. All comments received will be available for examination by interested persons at the Office of Secretary, Hazardous Materials Regulations Board, both before and after the closing date for comments.

In consideration of the foregoing, it is proposed to amend 49 CFR Part 173 as follows:

In § 173.119 subparagraphs (a) (17), (e) (3), and (f) (5) would be amended to read as follows:

§ 173.119 Flammable liquids not specifically provided for.

(a) \* \* \*

(17) Specification MC 300, MC 301, MC 302, MC 303, MC 304, MC 305, MC 306, MC 307, MC 330,<sup>1</sup> or MC 331<sup>1</sup> (§§ 178.340, 178.341, 178.342, 178.337). Tank motor vehicles. Bottom outlets on specification MC 304 cargo tanks must be equipped with valves conforming with § 178.342-5(a). Bottom outlets on specification MC 330 and MC 331 cargo tanks must be equipped with valves conforming with § 178.337-11(c).

[Note 1 remains unchanged]

\* \* \* \* \*

(e) \* \* \*

(3) Specification MC 300, MC 301, MC 302, MC 303, MC 304, MC 305, MC 306, MC 307, MC 330,<sup>1</sup> or MC 331<sup>1</sup> (§§ 178.340, 178.341, 178.342, 178.337). Tank motor vehicles. Bottom outlets on specification MC 304 cargo tanks must be equipped with valves conforming with § 178.342-5(a). Bottom outlets on specification MC 330 and MC 331 cargo tanks must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*

(f) \* \* \*

(5) Spec. MC 304, MC 307, MC 330,<sup>1</sup> MC 331<sup>1</sup> (§§ 178.340, 178.342, 178.337). Tank motor vehicles. Bottom outlets on spec. MC 304 cargo tanks must be equipped with valves conforming with § 178.342-5(a). Bottom outlets on spec. MC 330 and MC 331 cargo tanks must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*

<sup>1</sup> In addition to other requirements of this section necessary interior cleaning of the tanks must be performed between changes in lading. Safety relief devices must be in accordance with spec. MC 331 (§ 178.337).

In § 173.123 subparagraph (a)(6) would be amended to read as follows:

§ 173.123 Ethyl chloride.

(a) \* \* \*

(6) Specs. MC 330 or MC 331 (§ 178.-337). Tank motor vehicles. Tank bottom outlets must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*  
In § 173.134 subparagraph (a)(6) would be amended to read as follows:

§ 173.134 Pyroforic liquids, n.o.s.

(a) \* \* \*

(6) Spec. MC 330 or MC 331 (§ 178.-337). Tank motor vehicles having a minimum design pressure of 175 p.s.i. Safety relief devices must communicate with the vapor space when tanks are fully loaded. Tank bottom outlets must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*  
In § 173.135 subparagraph (a)(9) would be amended to read as follows:

§ 173.135 Dimethyl dichlorosilane, ethyl dichlorosilane, ethyl trichlorosilane, methyl trichlorosilane, trimethyl chlorosilane, and vinyl trichlorosilane.

(a) \* \* \*

(9) Spec. MC 300, MC 303, MC 304, MC 306, or MC 307 (§§ 178.340, 178.341, 178.342). Tank motor vehicles having cargo tanks of steel or stainless steel construction. Tank bottom outlets must be equipped with valves conforming with § 178.342-5(a).

In § 173.136 subparagraph (a)(8) would be amended to read as follows:

§ 173.136 Methyl dichlorosilane and trichlorosilane.

(a) \* \* \*

(8) Spec. MC 330 or MC 331 (§ 178.-337). Tank motor vehicles. Tank bottom outlets must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*

In § 173.141 subparagraph (a)(8) would be amended to read as follows:

§ 173.141 Amyl mercaptan, butyl mercaptan, ethyl mercaptan, isopropyl mercaptan, propyl mercaptan, and aliphatic mercaptan mixtures.

(a) \* \* \*

(8) Spec. MC 330 or MC 331 (§ 178.-337). Tank motor vehicles. Tank bottom outlets must be equipped with valves conforming with § 178.337-11(c).

\* \* \* \* \*

In § 173.148 subparagraph (a)(5) would be amended to read as follows:

§ 173.148 Monoethylamine.

(a) \* \* \*

(5) Spec. MC 304 or MC 307 (§§ 178.-340, 178.342). Tank motor vehicles. Tank bottom outlets must be equipped with valves conforming with § 178.342-5(a).

This proposal is made under the authority of sections 831-835 of title 18, United States Code, and section 9 of the Department of Transportation Act (49 U.S.C. 1657).

Issued in Washington, D.C., on September 25, 1969.

C. P. MURPHY,  
Rear Admiral, U.S. Coast Guard,  
by direction of Commandant,  
U.S. Coast Guard.

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F. C. TURNER,  
Administrator,  
Federal Highway Administration.  
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