



**DEPARTMENT OF TRANSPORTATION  
HAZARDOUS MATERIALS REGULATIONS BOARD 10731**

WASHINGTON, D.C. 20590

**This Docket, HM-77; Amendment Nos. 172-9, 173-47, 176-4, 178-18, 179-6, was published in the Federal Register June 2, 1971. Due to errors in publishing, Part 173 was republished on June 5, 1971.**

[Docket No. HM-77; Amdt. Nos. 172-9, 173-47, 176-4, 178-18, 179-6]

**METHYLACETYLENE-PROPADIENE,  
STABILIZED**

The purpose of this amendment to the Hazardous Materials Regulations is to provide specific requirements for the shipment of stabilized methylacetylene-propadiene, a flammable compressed gas, in cylinders, tank cars, and tank motor vehicles.

On February 4, 1971, the Hazardous Materials Regulations Board published a notice of proposed rulemaking, Docket No. HM-77; Notice No. 71-4 (36 F.R. 2404), which proposed to amend the regulations as described below.

Several comments noted that the proposal contained no provision for exemption of small quantity shipments under § 173.306(a), and requested that such provision be made. Statements were made that the Department had been supplied with sufficient data to assure that such exemptions would be appropriate.

It was pointed out that reference to specification 4BW in § 173.34(e)(10) was possibly accidentally omitted as the specification was proposed to be added under § 173.304(a)(2). Since that specification cylinder, used for other gases free from corroding components, is included in § 173.34(e)(10), the Board agrees that its omission from § 173.34(e)(10) was unintentional.

Another commenter observed that reference to specification 4E in §§ 173.34(e)(10) and 173.304(a) was also omitted. Inclusion of specification 4E in this Docket was never proposed by petitioner and consequently was not considered by the Board in its publication of the subject notice. The Board does agree that insofar as § 173.304(a)(2) is concerned, as supported by petitions, the intent was to provide essentially the same specifica-

transportation no matter what the exact composition might be. This approach would be similar to the method that now exists of requiring certain polymerizable materials offered in transportation to be "inhibited" or "stabilized" without further qualification. The Board agrees with this suggestion and has changed section 172.5 accordingly.

Accordingly, 49 CFR Parts 172, 173, 176, 178, and 179 are amended as follows:

tion packaging for methylacetylene-propadiene mixtures as for liquefied petroleum gases, except that brazed seams were not to be permitted. On the other hand, the matter of generally authorizing inspection of specification 4E cylinders under the optional requirements of § 173.34(e)(10) is a separate issue under consideration in Docket No. HM-76; Notice No. 71-3 (36 F.R. 1153). The Board will decide if it should include these optional inspection provisions for 4E cylinders in methylacetylene-propadiene service on the basis of the outcome of that notice of proposed rulemaking.

On the basis of the above considerations, and in view of the fact that methylacetylene-propadiene mixtures have been successfully shipped for several years in packaging authorized for liquefied petroleum gases, the Board agrees that for this product: (1) Reference to § 173.306 should be included in § 172.5; (2) reference to specification 4BW should be included in § 173.34(e)(10); and, (3) § 173.304(a)(2) should be amended to provide for the use of specification 4E cylinders.

Comments were also received regarding the proper shipping name and descriptive text for methylacetylene-propadiene mixtures. Two commenters observed that the italicized phrase "containing at least 32 percent stabilizing diluents," used with the entry in § 172.5, suggests to the uninformed or inexperienced that a mixture containing these percentages of the product and diluents is stable and satisfactory for shipment. This is not necessarily true. It was suggested, in order to prevent the regulations from being misleading, that the proposed entry be changed by deleting the text in parentheses. Reliance would then be placed on § 173.21(b) to prevent shippers from offering unstable mixtures in

**PART 172—COMMODITY LIST OF  
HAZARDOUS MATERIALS CON-  
TAINING THE SHIPPING NAME OR  
DESCRIPTION OF ALL ARTICLES  
SUBJECT TO PARTS 170-180 OF  
THIS CHAPTER**

In § 172.5 paragraph (a), Commodity List is amended as follows:

**§ 172.5 List of hazardous materials.**

(a) \* \* \*

Article	Classed as—	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
* * *	* * *	* * *	* * *	* * *
(add)				
Methylacetylene-propadiene, stabilized:	F.G.....	173.306, 173.304, 173.314, 173.315.	Red gas.....	300 pounds.
* * *	* * *	* * *	* * *	* * *
(cancel)				
Methylacetylene—15% to 20% propadiene mixture.	F.G.....	173.306, 173.304, 173.314	Red gas.....	300 pounds.

# title 49—TRANSPORTATION

## Chapter I—Hazardous Materials Regulations Board, Department of Transportation

[Docket No. HM-77; Amdt. Nos. 172-9, 173-47, 178-4, 178-18, 179-6]

### PART 173—SHIPPERS

#### Methylacetylene-Propadiene, Stabilized

##### Correction

In F.R. Doc. 71-7546 appearing at page 10731 in the issue of Wednesday, June 2, 1971, the amendments to Part 173 should appear as set forth below:

(A) In § 173.34, paragraph (e) (9) is amended by inserting the phrase "methylacetylene-propadiene, stabilized" immediately following the phrase "liquefied petroleum gas", in the first sentence; paragraph (e) (10) Table is amended as follows:

§ 173.34 Qualification, maintenance and use of cylinders.

(e) \* \* \*  
(10) \* \* \*

Cylinders made in compliance with— Used exclusively for—

(add)

DOT-3A480, DOT-3AA480, DOT-3B, DOT-4B, DOT-4BA, DOT-4BW. Methylacetylene-propadiene, stabilized which is commercially free from corroding components.

(B) In § 173.301, paragraph (d) (3) is amended to read as follows:

§ 173.301 General requirements for shipment of compressed gases in cylinders.

(d) \* \* \*

(3) Manifolding is authorized for cylinders of the following gases: ethane, ethylene, propylene, liquefied petroleum gases, methylacetylene-propadiene, stabilized, and liquefied hydrocarbon gases. Individual cylinders must be equipped with approved safety relief devices as required by § 173.34(d). Each such cylinder must be equipped with an individual shut-off valve, or valves, which must be tightly closed while in transit. Each such cylinder must be separately charged, and shippers shall insure that no interchange of cylinder contents can occur during transportation. Manifold branch lines to individual shut-off valves must be sufficiently flexible to prevent injury to the valves which otherwise might result from the use of rigid branch lines.

(C) In § 173.304, paragraph (a) (2) Table is amended and Note 6 thereto is canceled as follows:

(a) \* \* \*  
(2) \* \* \*

Kind of gas	Maximum permitted filling density (see Note 1)	Containers marked as shown in this column or of the same type with higher service pressure must be used except as provided in § 173.34 (a), (b), § 173.301(j) (see notes following table).
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(add) Methylacetylene-propadiene, stabilized Not liquid full at 130° F. DOT-4B240, without brazed seams; DOT-4BA240, without brazed seams; DOT-3A240, DOT-3AA240; DOT-3B240; DOT-3E1800; DOT-4BW240; DOT-4E240; DOT-4B240ET; DOT-4; DOT-4I.

(cancel) Methylacetylene-15% to 20% propadiene mixture (see Note 6). 50..... ICC-3A240; ICC-3AA240; ICC-3B240; ICC-4B240; ICC-4BA240; ICC-4BW240; ICC-4B240ET.

Note 6: [Canceled]

(D) In § 173.314, paragraph (c) Table and paragraph (e) are amended as follows:  
§ 173.314 Requirements for compressed gases in tank cars.

(c) \* \* \*

Kind of gas	Maximum permitted filling density, Note 1	Required tank car, see § 173.31(a) (2) and (3)
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(add) Methylacetylene-propadiene, stabilized Note 22..... DOT-105A300W; 112A340W; 114A340W; 106A 500X, Notes 4 and 9.

(cancel) Methylacetylene-15% to 20% propadiene mixture. 50..... ICC-105A300W.

(e) Verification of content. The amount of liquefied gas loaded into each tank may be determined either by measurement or calculation of the weight. If by measurement, the weight must be checked after disconnecting the loading line by the use of proper scales. If by calculation, the weight of liquefied petroleum gas, methylacetylene-propadiene, stabilized, dimethylamine, monomethylamine, or trimethylamine may be calculated using the outage tables supplied by the tank car owners and the specific gravities as determined at the plant, and this computation must be checked by determination of specific gravity of product after loading. Carriers may verify calculated weights by use of proper scales.

(E) In § 173.315, paragraphs (a) (1) Table, (h) (2) Table, and (i) (2) Table are amended as follows:

§ 173.315. Compressed gases in cargo tanks and portable tank containers.

(a) \* \* \*  
(1) \* \* \*

Kind of gas	Maximum permitted filling density		Specification container required	
	Percent by weight (see Note 1)	Percent by volume (see par. (f) of this section)	Type (see Note 2)	Minimum design pressure (p.s.i.g.)

(add) Methylacetylene-propadiene, stabilized (see Note 13). 63..... 60..... DOT-51, MC-330, MC-331. 200.

(h) \* \* \*  
(2) \* \* \*

Kind of gas	Permitted gaging device
(add) Methylacetylene-propadiene, stabilized.	Rotary tube; adjustable slip tube; fixed length dip tube.

(i) \* \* \*  
(2) \* \* \*

Kind of gas	Minimum start-to-discharge pressure (p.s.i.g.)
(add) Methylacetylene-propadiene, stabilized.	200.

**PART 176—RAIL CARRIERS IN BAGGAGE SERVICE**

**§ 176.703 [Amended]**

In § 176.703, paragraph (b) Table is amended by inserting "Methylacetylene-propadiene, stabilized----- Red gas label" between "Liquefied petroleum" and "Methylchloride".

**PART 178—SHIPPING CONTAINER SPECIFICATIONS**

In § 178.337-14, subparagraph (a) (1) Table and subparagraph (a) (2) are amended as follows:

**§ 178.337 Specification MC 331; cargo tanks constructed of steel, primarily for transportation of compressed gases as defined in the Compressed Gas Section.**

**§ 178.337-14 Gaging devices.**

- (a) \* \* \*
- (1) \* \* \*

<i>Kind of gas (Add)</i>	<i>Permitted gaging device for primary control in filling</i>
* * *	* * *
Methylacetylene-propadiene, stabilized.	Rotary tube; adjustable slip tube; fixed length dip tube.

(2) A dip tube gaging device consists of a pipe or tube with a valve at its outer end, with its intake limited by an orifice not larger than 0.060 inch in diameter. If a fixed length dip tube is used the intake must be located midway of the tank both longitudinally and laterally and at maximum permitted filling level and in tanks for transporting liquefied petroleum gases and methylacetylene-propadiene, stabilized, it must be located at the level reached by the lading when the tank is loaded to maximum filling density at 40° F.

\* \* \* \* \*

**PART 179—SPECIFICATIONS FOR TANK CARS**

In § 179.102-11 the Heading and the introductory text of paragraph (a) are amended to read as follows:

**§ 179.102 Special commodity requirements for pressure tank car tanks.**

**§ 179.102-11 Liquefied petroleum gas, methylacetylene-propadiene, stabilized, or anhydrous ammonia.**

(a) Specification 105A300W, 112A340W, 112A400W, or 114A340W tank cars used to transport liquefied petroleum gas, methylacetylene-propadiene, stabilized, or anhydrous ammonia may, as an alternate, comply with the following special requirements:

\* \* \* \* \*

This amendment is effective August 31, 1971; however, compliance with the regulations as amended herein as authorized immediately.

(Secs. 831-835, 18 U.S.C., sec. 9 Department of Transportation Act, 49 U.S.C. 1657, title VI and sec. 902(h), Federal Aviation Act of 1958, 49 U.S.C. 1421-1430 and 1472(h))

Issued in Washington, D.C. on May 25, 1971.

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