



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

17565

[49 CFR Parts 172, 173, 179]

[Docket No. HM-105; Notice No. 72-11]

**TRANSPORTATION OF HAZARDOUS
MATERIALS**

Tank Car Utilization

The Hazardous Materials Regulations Board is considering the amendment of several sections in Parts 172, 173, and 179 of the Department's Hazardous Materials Regulations to update and expand tank car utilization as prescribed for hazardous materials in Part 173.

On November 6, 1971, the Hazardous Materials Regulations Board published amendments in Docket No. HM-90 (36 F.R. 21343) which were concerned almost in their entirety with updating construction requirements for certain tank cars. These amendments were based on numerous special permits and eliminated the need for many permits relating to tank car construction.

There is a need to update the use of these same tank cars as provided by Part 173. Many special permits have been issued to authorize the use of cars equivalent or better than the cars described in a given section of the regulations. The changes proposed in §§ 173.119 through 173.392 and § 179.202-16 are based on the following: (1) The new cars proposed are equivalent to or better than the cars authorized, or (2) the new cars authorized are included because of satisfactory experience reported to the Board obtained under the authorization of special permits.

Proposed changes in § 173.31 are based on petitions from the Association of American Railroads and the Manufacturing Chemists Association. In § 173.31 (c) (7), specific requirements would be added for marking tank cars that are converted to a lower pressure specification. In § 173.31 (c) (10), the requirement for marking the month and year of test would be changed to require only marking the year when retesting is permitted any time during a calendar year since the month indication is not a needed marking in this circumstance. Also a proposed rule is being added regarding the test shelf-life of safety relief valves before they are installed on tank cars. Although the petitioner requested that a 1-year period be permitted from test to installation, the Department is proposing 6 months because this was the minimum used in evaluating valves for suitability when the petitioner studied the storage conditions for valves.

Section 179.100-8(b) is proposed to improve the material requirements for pressure tank cars constructed from "fine grain" steel, to assure that notch-ductility is maintained. When forming

operations are performed, heating above 1700° F. may adversely affect the steel. The Board believes that the steel should be given suitable heat treatment after forming, to maintain the properties intended for the end use and to maintain a balance between the properties of the heat and the shell of the tank car.

In consideration of the foregoing, it is proposed to amend 49 CFR Parts 172, 173, and 179 as follows:

**PART 172—COMMODITY LIST OF
HAZARDOUS MATERIALS CON-
TAINING THE SHIPPING NAME OR
DESCRIPTION OF ALL ARTICLES
SUBJECT TO PARTS 170-189 OF
THIS CHAPTER**

In § 172.5 paragraph (a), the List of Hazardous Materials is amended to read as follows:

§ 172.5 List of hazardous materials.

(a) * * *

Article	Classed as—	Exemp- tions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
<i>Add</i>				
Dichlorobu-				
tene. See				
Corrosive				
liquid, n.o.s.				

* * * * *

PART 173—SHIPPERS

A. In Part 173 Table of Contents, § 173.224 would be amended to read as follows:

Sec.
173.244 Cumene hydroperoxide, dicumyl peroxide, diisopropylbenzene hydroperoxide, paramenthane hydroperoxide, tertiary butylisopropyl benzene hydroperoxide, and tertiary butyl hydroperoxide.

B. In § 173.31, paragraph (c) (7) and (10) would be amended to read as follows:

**§ 173.31 Qualification, maintenance,
and use of tank cars.**

* * * * *

(c) * * *

(7) A DOT tank built to one specification and authorized to be stenciled to another specification must be retested in accordance with the higher specification and the test pressure stenciled accordingly on the tank or jacket. An existing pressure tank car tank which is permanently converted to a lower pressure specification must have the new specification and conversion date permanently

stamped in letters and figures at least 3/8-inch high on the outside of the manway nozzle or the edge of the manway nozzle flange on the left side of the car. Each car must be tested as designated in Retest Table 1 for the new specification. On a Class DOT-111A tank car, the last numeral of the specification number may be omitted from the stamping.

(10) The year of the test of any tank, tank safety relief valve, and heater system, and the pressure to which it was tested must be stenciled on the tank or on the jacket if insulated, except that if a retest is required specifically by the regulations during the calendar month the retest falls due, the month and year must be so stenciled. Any safety relief valve from a stock which has been tested within 6 months of installation may be considered as having been tested or retested on the month in which installed, providing the valve has been protected from deterioration during this period.

C. In § 173.119 paragraph (a)(12), "109A300W" would be added immediately following 109A100ALW in the first sentence; paragraphs (e) (2), (f) (3) and (4), and the introductory text of paragraph (h) would be amended to read as follows:

§ 173.119 Flammable liquids not specifically provided for.

(e) * * *

(2) Specification 103,¹ 103W, 103ALW, 103DW, 104,¹ 104W, 105A100,¹ 105A100ALW, 105A100W, 106A500X, 106A800XNC, 106A800NCI,¹ 109A100ALW, 109A300W, 110A500W, 111A60ALW1, 111A60F1, 111A60W1, 111A100W4, 111A100W6, 112A200W, 112A400F, 114A340W, 115A30W1, 115A60W6, 115A60ALW, ARA-III,¹ ARA-IV,¹ or ARA-IV-A¹ (§§ 179.100, 179.101, 179.200, 179.201, 179.220, 179.221, 179.300, 179.301 of this subchapter). Tank cars. Any car having an expansion dome must be equipped with a manway closure, identification marks, and dome placards as prescribed in paragraphs (f) (4), (g), (h), and (h) (1) of this section. Openings in tank heads to facilitate application of lining are authorized and must be closed in an approved manner. (See Note 1 following paragraph (f) (3) of this section.)

(f) * * *

(3) Specification 105A100,¹ 105A100ALW, 105A100W, 106A500X, 106A800XNC, 106A800NCI,¹ 109A100ALW, 109A300W, 110A500W, 111A100W4, 112A200W, 112A400F, 114A340W, or ARA-IV-A¹ (§§ 179.100, 179.101, 179.200, 179.201, 179.300, 179.301 of this subchapter), or (see Note 1 of this subparagraph). Tank cars. Specification 104,¹ 104W, 111A100 W3- and ARA-IV¹ (§§ 179.200, 179.201 or this subchapter), tank cars

See footnote at end of document.

are authorized under the conditions prescribed in paragraphs (f) (4), (g), (h), and (h) (1) of this section and Note 3 of this subparagraph. Openings in tank heads to facilitate application of lining are authorized and must be closed in an approved manner.

(Notes 1, 2, and 3 remain the same.)

(4) Specification 103,¹ 103W, 103ALW, 104,¹ 104W, 111A60ALW1, 111A60F1, 111A60W1, 115A60W1, 115A60W6, 115A60ALW, ARA-III,¹ or ARA-IV¹ (§§ 179.200, 179.201, 179.220, 179.221 of this subchapter). Tank cars. Each car must have its manway closure equipped with approved safeguards making the removal of the closure from the manway opening practically impossible while the car interior is subjected to vapor pressure of lading. The car must be stenciled on each side of the dome in line with the ladders, and in a color contrasting to the color of the dome, with identification marks as prescribed in paragraph (g) of this section.

(h) *Dome placards.* Specification 103,¹ 103ALW, 103W, 104,¹ 104W, 111A60ALW1, 111A60F1, 111A60W1, 115A60W1, 115A60W6, 115A60ALW, ARA-III,¹ or ARA-IV¹ (§§ 179.200, 179.201, 179.220, 179.221 of this subchapter). Tank cars. Each car loaded with any material described in paragraphs (e) and (f) of this section must, in addition to the "Dangerous" placards, be protected by special dome placards, at least 4 1/8 by 10 7/8 inches, with legible wording as follows:

D. In § 173.123, paragraph (a) (5) would be amended to read as follows:

§ 173.123 Ethyl chloride.

(a) * * *

(5) Specification 105A100,¹ 105A100W, 111A100W4, 112A200W, 112A400F, 114A340W, or ARA-IV-A¹ (§§ 179.100, 179.101 of this subchapter). Tank cars. See Note 1 following § 173.119(f) (3). (See § 173.432 for shipping instructions.)

E. In § 173.141, paragraph (a) (7) would be amended to read as follows:

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

(a) * * *

(7) Specification 103W, 105A100,¹ 105A100W, 106A500X, 110A500W, 111A60F1, 111A60W1, 112A200W, 112A400F, or 114A340W (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars. Specifications 103W, 111A60F1, and 111A60W1 tank cars equipped with bottom outlets must have each bottom outlet effectively sealed. Bottom washout permitted.

F. In § 173.145, paragraph (a) (6) would be amended to read as follows:

§ 173.145 Dimethylhydrazine, unsymmetrical, and methylhydrazine.

(a) * * *

(6) Specification 103W, 103CW, 105A-100W, 111A60W1, 111A60W7, or 111A-100W4 (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars. Authorized for dimethylhydrazine, unsymmetrical only. Each tank car must be equipped with steel safety valves of approved design and any 103W tank car must not be equipped with any bottom outlet. Specification 105A200W, 105A-300W, 105A400W, 105A500W, and 105A-600W (§§ 179.100, 179.101 of this subchapter) tanks must be restenciled 105A-100W and be equipped with safety valves of the type and size used on specification 105A100W tank cars.

G. In § 173.154, paragraph (a) (15) would be added to read as follows:

§ 173.154 Flammable solids and oxidizing materials not specifically provided for.

(a) * * *

(15) Specification 103,¹ 103W, 111A60W1, or 111A60F1 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized only for sodium perchlorate or magnesium perchlorate wet with 10 percent or more water equally distributed.

H. In § 173.224, the heading, the introductory text of paragraph (a) and paragraph (a) (3) would be amended to read as follows:

§ 173.224 Cumene hydroperoxide, dicumyl peroxide, diisopropylbenzene hydroperoxide, paramenthane hydroperoxide, tertiary butylisopropyl benzene hydroperoxide, and tertiary butyl hydroperoxide.

(a) Cumene hydroperoxide of strength not exceeding 96 percent in a nonvolatile solvent, dicumyl peroxide or tertiary hydroperoxide of strength not exceeding 50 percent in a nonvolatile solvent, diisopropylbenzene hydroperoxide of strength not exceeding 60 percent in a nonvolatile solvent, paramenthane hydroperoxide of strength not exceeding 60 percent in a nonvolatile solvent, and tertiary butylisopropyl benzene hydroperoxide of strength not exceeding 60 percent must be packed in specification containers as follows:

(3) * * *

(3) Specification 103,¹ 103W, 103A,¹ 103AW, 111A60F1, 111A60W1, 111A100F2, or 111A60W2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized for 90 percent or less cumene hydroperoxide in a nonvolatile solvent, paramenthane hydroperoxide of strength not exceeding 60 percent in a nonvolatile solvent, diisopropylbenzene hydroperoxide of strength not exceeding 60 percent in a nonvolatile solvent only, or tertiary butyl hydroperoxide not exceeding 50 percent by weight in water. Specifications 103,¹ 103W,

111A60F1, and 111A60W1 tank cars must have bottom outlets effectively sealed from the inside.

I. In § 173.245a paragraph (a), the table and footnote 2 would be amended as follows:

§ 173.245a Corrosive liquids, n.o.s. shipped in bulk.

(a) * * *

Corrosive liquid	Authorized tank car	Authorized portable tank
Add:		
Dichlorobutene	105A300W 112A340W	
Change:		
Ethylphosphonothioic dichloride, anhydrous	103AW 111A60W2	

² Specification 103ANW tank car tank must be solid nickel at least 99 percent pure; all cast metal parts of the tank in contact with the lading must have a minimum nickel content of approximately 96.7 percent. Specification 103A tank car tanks must be lead-lined steel or must be made of steel at least 10 percent nickel clad; specification 103AW, 111A100F2, or 111A60W2 tank must be lead-lined steel or made of steel with a minimum thickness of nickel cladding $\frac{1}{16}$ inch; nickel cladding in tanks must have a minimum nickel content at least 99 percent pure nickel.

J. In § 173.247, paragraphs (a) (13) and (14) would be amended to read as follows:

§ 172.247 Acetyl chloride, antimony pentachloride, benzoyl chloride, chromyl chloride, pyro sulfur chloride, silicon chloride, sulfur chloride (mono and di), sulfur chloride, thionyl chloride, tin tetrachloride (anhydrous), and titanium tetrachloride.

(a) * * *

(13) Specification 103A,¹ 103AW, 105A300W, 111A60W2, or 111A100F2 (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter) tank cars, except that for tin tetrachloride (anhydrous) specification 105A300W tank cars must be used.

(14) Specification 103A,¹ 103AW, 111A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized for titanium tetrachloride, anhydrous only. Tank cars must have safety valves of approved design and not subject to rapid deterioration by the lading.

K. In § 173.248, paragraph (a) (4) would be amended to read as follows:

§ 173.248 Acid sludge, sludge acid, spent sulfuric acid, or spent mixed acid.

(a) * * *

(4) Specification 103A,¹ 103AW, 111A60W2, or 111A100F2 (§§ 179.200 and 179.201 of this subchapter). Tank cars, provided the product is sufficiently liquid to be unloaded through the dome or

See footnote at end of document.

manway. Tanks which do not contain products or contaminants that give off noxious or flammable vapors may be equipped with safety vents incorporating lead discs having a $\frac{1}{8}$ -inch breather hole in the center thereof.

L. In § 173.249, paragraph (a) (5) would be amended to read as follows:

§ 173.249 Alkaline corrosive liquids, n.o.s., alkaline caustic liquids, n.o.s., alkaline corrosive battery fluids, and sodium aluminate, liquid.

(a) * * *

(5) Specification 103,¹ 103W, 103A,¹ 103AW, 103B,¹ 103BW, 104,¹ 104W, 105A100,¹ 105A100W, 111A60F1, 111A60W1, 111A60W2, 111A100F2, 111A60W5, or 111A100W4 (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars.

M. In § 173.253, paragraph (a) (7) would be amended to read as follows:

§ 173.253 Chloroacetyl chloride.

(a) * * *

(7) Specification 103AW, 111A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Tanks must have a nickel cladding of $\frac{1}{16}$ -inch minimum thickness. Nickel cladding in tanks must have a minimum nickel content of at least 99 percent pure nickel.

N. In § 173.254, paragraph (a) (4) would be amended to read as follows:

§ 173.254 Chlorosulfonic acid and mixtures of chlorosulfonic acid-sulfur trioxide.

(a) * * *

(4) Specification 103A,¹ 103AW, 103CW, 103EW, 111A60W2, 111A60W7, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

O. In § 173.262, paragraph (a) (6) would be amended to read as follows:

§ 173.262 Hydrobromic acid.

(a) * * *

(6) Specification 103B,¹ 103BW, or 111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars.

P. In § 173.263, paragraphs (a) (9) and (12) would be amended to read as follows:

§ 173.263 Hydrochloric (muriatic) acid, hydrochloric (muriatic) acid mixtures, hydrochloric (muriatic) acid solution, inhibited, sodium chlorite solution (not exceeding 42 percent sodium chlorite), and cleaning compounds, liquid, containing hydrochloric (muriatic) acid.

(a) * * *

(9) Specification 103B,¹ 103BW, or 111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized for acid not over 38 percent strength by

weight. A safety vent of approved design equipped with frangible disc having $\frac{1}{8}$ -inch breather hole in center thereof or a safety vent of approved design equipped with carbon discs permitting continuous venting may be used, but may not be used for hydrochloric (muriatic) acid of 22° Baume strength, and other fuming acids.

(Note 1 remains the same.)

(12) Specification 103CW, 111A60W7 (§§ 179.200 and 179.201 of this subchapter). Tank cars having tanks of type 304L stainless steel. Authorized for sodium chlorite solution not exceeding 42 percent sodium chlorite only.

Q. In § 173.264, paragraphs (a) (8), (11), and (b) (2) would be amended to read as follows:

§ 173.264 Hydrofluoric acid.

(a) * * *

(8) Specification 103A,¹ 103AW, 105A100,¹ 105A100W, 111A60W2, 111A100F2, 111A100W4, or ARA-IV¹ (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Unlined metal tanks which have been subjected to adequate passivity or neutralization process.

(See Note 1 to subparagraph (7) of this paragraph.) Authorized only for acid of 60 to 80 percent strength. If tanks are washed out with water they must be resubjected to passivity before reshipment.

(Note 1 remains the same.)

(11) Specification 103B,¹ 103BW, or 111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars, rubber-lined tanks. Authorized only for acid not over 40 percent strength.

(b) * * *

(2) Specification 105A300W, 112A400W, 114A400W, or ARA-V¹ (§§ 179.100, 179.101 of this subchapter). Tank cars equipped with special valves and appurtenances approved for this particular service. Filling density must not exceed 90 percent of the pounds water weight capacity of the tank. For Specification 114A400W tanks, valves and fittings must be located on top of the tank. Bottom opening in tanks prohibited.

R. In § 173.265, paragraph (b) (3) would be amended to read as follows:

§ 173.265 Hydrofluosilicic acid.

(b) * * *

(3) Specification 103B,¹ 103BW, or 111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars, rubber-lined tanks.

S. In § 173.266, paragraph (f) (1) would be amended to read as follows:

§ 173.266 Hydrogen peroxide solution in water.

(f) * * *

(1) Specification 103A-ALW or 111A60ALW2 (§§ 179.200, 179.201 of this

subchapter). Tank cars. Venting arrangements must be approved by the Department.

T. In § 173.267, paragraph (a)(3) would be amended to read as follows:

§ 173.267 Mixed acid (nitric and sulfuric acid) (nitrating acid).

(3) Specification 103A, 130AW, 111-A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. (See paragraph (b) of this section.)

U. In § 173.268, paragraphs (b)(1) and (c)(2) would be amended to read as follows:

§ 173.268 Nitric acid.

(1) Specification 103CW or 111A60W7 (§§ 179.200, 179.201 of this subchapter). Tank cars.

(2) Specification 103A-ALW or 111-A60ALW2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

V. In § 173.271, paragraphs (a)(9) and (11) would be amended to read as follows:

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

(9) Specification 103A, 103AW, 111-A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Specification 103A, tanks must be lead-lined steel or made of steel at least 10 percent nickel clad. Specification 103AW, 111-A60W2, or 111A100F2 tanks must be lead-lined steel or made of steel with a minimum thickness of nickel cladding 1/16-inch. Nickel cladding in tanks must have a minimum nickel content of at least 99 percent pure nickel.

(11) Specification 103A, 103AW, 111-A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized for phosphorus trichloride only.

W. In § 173.272, paragraph (i)(22), (26), and (27) would be amended to read as follows:

§ 173.272 Sulfuric acid.

(22) Specification 103A, 103AW, 111-A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Authorized for sulfuric acid of concentrations 65.25 percent or greater concentrations, provided the corrosive effect in steel is not greater than that of 65.25 percent

sulfuric acid, measured at 100° F. Tank cars used for sulfuric acid, mixed acid (nitric and sulfuric acids) (nitrating acid), and other fuming acids, may be equipped with safety vents incorporating lead discs having a 1/8-inch breather hole in their center. The 1/8-inch breather hole is not permitted in lead discs of safety vents on oleum tank cars.

(26) Specification 103B, 103BW, or 111A60W5. (§§ 179.200, 179.201 of this subchapter). Lined tank cars.

(27) Specification 103AW, 111A100F2, or 111A60W2 (§§ 179.200, 179.201 of this subchapter). Tank cars having tanks equipped with a phenolic lining impervious to the lading.

X. In § 173.273, paragraph (a)(4) would be amended to read as follows:

§ 173.273 Sulfur trioxide, stabilized.

(4) Specification 103A, 103AW, 105A-100W, 111A60W2, or 111A100F2 (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars. Authorized only for stabilized sulfur trioxide. Tank cars must have safety valves of approved design and not subject to rapid deterioration by the lading. Cars equipped with interior heater coils not permitted.

Y. In § 173.274, paragraph (a)(3) would be amended to read as follows:

§ 173.274 Fluosulfonic acid.

(3) Specification 103A, 103AW, 111A-60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

Z. In § 173.276, paragraphs (a)(4) and (5) would be amended to read as follows:

§ 173.276 Anhydrous hydrazine and hydrazine solution.

(4) Specification 103CW, 111A60W7, or 111A100W6 (§§ 179.200, 179.201 of this subchapter). Tank cars having tanks of Type 304L or 347 stainless steel with molybdenum content not exceeding one-half of 1 percent. The safety relief valve on specification 103CW tank car tanks may have a start-to-discharge pressure of not more than 45 p.s.i. in place of 35 p.s.i. Specification 111A100W6 tanks must not be equipped with bottom outlets. Vapor space in tanks must be filled with nitrogen gas at atmospheric pressure.

(5) Specification 103A-ALW or 111A-60ALW2 (§§ 179.200, 179.201 of this subchapter). Tank cars. The safety relief valve on tanks may not have a start-to-discharge pressure of more than 45 p.s.i. in place of 35 p.s.i. Vapor space in tanks must be filled with nitrogen gas at atmospheric pressure. Authorized for anhydrous hydrazine only.

AA. In § 173.280, paragraph (a)(7) would be amended to read as follows:

§ 173.280 Allyl trichlorosilane, amyl trichlorosilane, butyl trichlorosilane, cyclohexenyl trichlorosilane, cyclohexyl trichlorosilane, diethyl dichlorosilane, diphenyl dichlorosilane, dodecyl trichlorosilane, ethylphenyl dichlorosilane, hexadecyl trichlorosilane, hexyl trichlorosilane, nonyl trichlorosilane, octadecyl trichlorosilane, octyl trichlorosilane, phenyl trichlorosilane, and propyl trichlorosilane.

(7) Specification 103W, 103A, 103AV, 105A100, 105A100W, 111A60F1, 111A60W1, 111A60W2, 111A100F2, or 111A100W4 (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars.

BB. In § 173.291, paragraph (a) would be amended to read as follows:

§ 173.291 Flame retardant compound liquid.

(8) Specification 103B, 103BW, 111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars.

CC. In § 173.294, paragraphs (a) and (b) would be amended to read as follows:

§ 173.294 Monochloroacetic acid, liquid.

(2) Specification 103ANW, 103AV, 111A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars. Specification 103AW, 111A60W2, or 111A100F2 tank cars must be nickel clad at least 20 percent.

(b) Monochloroacetic acid, anhydrous when shipped as a liquid must be shipped in specification 103ANW fabricated of 99 percent pure nickel or in specification 103AW or 111A60W2, nickel clad at least 20 percent or be provided with a suitable corrosive resistant coating or lining.

DD. In § 173.295, paragraphs (a)(11) and (12) would be amended to read as follows:

§ 173.295 Benzyl chloride.

(11) Specification 103A, 103AW, 111A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

(12) Specification 103ANW (§§ 179.200, 179.201 of this subchapter). Tank cars. All cast metal parts of the tank in contact with the lading must have a minimum nickel content of approximately 96.7 percent. When shipped in unstabilized condition, the lading must be anhydrous and must be free from impurities such as iron.

EE. In § 173.296, paragraph (a)(3) would be amended to read as follows:

§ 173.296 Diisooctyl acid phosphate.

(3) Specification 103AW, 103CW, 103EW, 111A60W2, 111A60W7, or 111A

See footnote at end of document.

100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

FF. In § 173.297, paragraph (a) (2) would be amended to read as follows:

§ 173.297 Titanium sulfate solution containing not more than 45 percent sulfuric acid.

(a) * * *

(2) Specification 103B,¹ 103BW, or

111A60W5 (§§ 179.200, 179.201 of this subchapter). Tank cars.

GG. In § 173.314 paragraph (c), the table would be 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)
<i>Change</i>	<i>Percent</i>	
Dichlorodifluoromethane; Note 13.....	119.....	DOT-106A500X, 110A500W, Note 7.
	125.....	DOT-105A300W.
Dichlorodifluoromethane and difluoroethane mixture (constant boiling mixture); Note 13.	123.....	DOT-112A340W, 114A340W.
	Note 21.....	DOT-106A500X, 110A500W, Note 7.
		DOT-105A300W.
Dichlorodifluoromethane-monochlorodifluoromethane mixture; Note 13.	119.....	DOT-112A340W, 114A340W.
	125.....	DOT-106A500X, 110A500W, Note 7.
	123.....	DOT-105A300W.
Dichlorodifluoromethane-monofluorotrichloromethane mixture; Note 13.	Note 22.....	DOT-106A500X, 110A500W, Note 7.
		DOT-105A300W.
Dichlorodifluoromethane-trichloromonofluoromethane-monochlorodifluoromethane mixture; Note 13.	Note 21.....	DOT-112A340W, 114A340W.
	119.....	DOT-106A500X, 110A500W, Note 7.
	125.....	DOT-105A300W.
	123, Note 21.....	DOT-112A340W, 114A340W.
Dichlorodifluoromethane-trichlorotrifluoroethane mixture; Note 13.	119.....	DOT-106A500X, 110A500W, Note 7.
	125.....	DOT-105A300W.
	123.....	DOT-112A340W, 114A340W.
Methyl chloride.....	84.....	DOT-106A500X, Note 7.
	85.....	DOT-112A340W, Note 4.
	86.....	DOT-105A300W, Note 4.
Vinyl chloride; Note 9.....	84.....	DOT-106A500X, Note 7.
	87.....	DOT-105A200W, Notes 4 and 16.
	86.....	DOT-112A340W, 114A340W, Note 4.

HH. In § 173.346, paragraph (a) (10) would be amended to read as follows:

§ 173.346 Poisonous liquids not specifically provided for.

(a) * * *

(10) Specification 103,¹ 103W, 103A,¹ 103ALW, 103AW, 104,¹ 104W, 105A100,¹ 105A100W, 111A60ALW1, 111A60F1, 111A60W1, 111A60W2, 111A100F2, 111A100W4, 115A60W6, or ARA-IV-A¹ (§§ 179.100, 179.101, 179.200, 179.201, 179.220, 179.221 of this subchapter). Tank cars.

II. In § 173.347, paragraph (a) (2) would be amended to read as follows:

§ 173.347 Aniline oil.

(a) * * *

(2) Specification 103,¹ 103W, 103A,¹ 103AW, 104W, 105A100W, 111A60F1, 111A60W1, 111A60W2, 111A100F2, 112A200W, 112A400F, 114A340W (§§ 179.100, 179.101, 179.200, 179.201 of this subchapter). Tank cars.

JJ. In § 173.352, paragraph (a) (4) would be amended to read as follows:

§ 173.352 Liquid sodium or potassium cyanide.

(a) * * *

(4) Specification 103,¹ 103W, 103A,¹ 103AW, 111A60F1, 111A60W1, 111A60W2, 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

KK. In § 173.365, paragraph (a) (13) would be amended to read as follows:

§ 173.365 Poisonous solids not specifically provided for.

(a) * * *

(13) Specification 103,¹ 103W, 103A,¹ 103AW, 111A60F1, 111A60W1, 111A60W2, or 111A100F2 (§§ 179.200, 179.201 of this subchapter). Tank cars.

LL. In § 173.369, the introductory text of paragraph (a) (13) would be amended to read as follows:

§ 173.369 Carboic acid (phenol), not liquid.

(a) * * *

(13) Specification 103,¹ 103W, 103ALW, 103A,¹ 103AW, 103A-ALW, 111A60ALW1, 111A60F1, 111A60W1, 111A60W2, 111A100F2, or 115A60W6 (§§ 179.200, 179.201, 179.220, 179.221 of this subchapter). Tank cars.

MM. In § 173.392, paragraph (d) (2) (i) would be amended to read as follows:

§ 173.392 Low specific activity radioactive material.

(d) * * *

(2) * * *

(i) Specification 103CW, 111A60W7 (§§ 179.200, 179.201, 179.202 of this subchapter) tank cars. Bottom fittings and valves are not authorized.

PART 179—SPECIFICATIONS FOR TANK CARS

A. In § 179.100-8, paragraph (b) would be added to read as follows:

§ 179.100 General specification applicable to pressure tank car tanks.

§ 179.100-3 Tank heads.

(b) Each tank head made from steel which is required to be "fine grain" by the material specification, which is hot formed at a temperature exceeding 1700° F., must be normalized after forming by heating to a temperature between 1550° and 1700° F., by holding at that temperature for at least 1 hour per inch of thickness (30 minute minimum), and then by cooling in air. If the material specification requires quenching and tempering, the treatment specified in that specification must be used instead of the one specified above.

B. The material now contained in § 179.202-16 would be redesignated paragraph (a) and paragraph (b) would be added to read as follows:

§ 179.202 Special commodity requirements for non-pressure tank car tanks.

§ 179.202-16 Monochloroacetic acid, liquid.

(b) Monochloroacetic acid anhydrous, when shipped as a liquid must be shipped in Specification 103ANW fabricated of 99 percent pure nickel or in 103AW or 111A60W2 nickel clad at least 20 percent provided with a suitable corrosion resistant coating or lining.

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, DC 20590. Communications received on or before October 31, 1972, 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 the Secretary, Hazardous Materials Regulations Board, both before and after the closing date for comments.

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 August 22, 1972.

W. F. REA III, RADM,
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MAC E. ROGERS,
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Federal Railroad Administration.

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¹ The use of existing tank cars authorized but new construction not authorized.