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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

**Working Party on the Transport
of Dangerous Goods**

REPORT OF THE WORKING PARTY ON ITS SEVENTIETH SESSION
(7-11 Mai 2001)

Annex 2

Corrections adopted by the Working Party to the annexe
to Depositary Notification C.N. 1098-TREATIES-3

- 1.6.3.12 Replace "piperadine" with "piperidine"
- 1.6.4.12 Replace "Tank-containers and MEGCs constructed before 1 July 2003" with "Tank-containers and MEGCs constructed before 1 January 2003"
- 1.8.3.2 (a) Replace "1.1.3" with "1.1.3.6"
- 2.1.2.3 Replace "accepted from carriage" with "accepted for carriage"
- 2.1.3.4 Under class 6.1, for UN No. 1051, replace "containing not more than 3% water" with "containing less than 3% water"
- 2.2.1.1.7 Replace "CHARGES, EXPLOSIVE without detonator: UN Nos. 0442, 0443, 0444, 0445" with "CHARGES, EXPLOSIVE, COMMERCIAL without detonator: UN Nos. 0442, 0443, 0444, 0445"
- Replace "CHARGES, SHAPED, COMMERCIAL, without detonator" with "CHARGES, SHAPED, without detonator"
- Replace "FUSE, INSTANTANEOUS, NON-DETONATING: UN No. 0101" with "FUSE, NON-DETONATING: UN No. 0101"
- Same amendment in the Note after the definition of "IGNITERS: UN Nos. 0121, 0314, 0315, 0325, 0454"
- In the Note under "POWDER, SMOKELESS" add "or CHARGES, PROPELLING FOR CANNON"
- 2.2.3.1.1 Under Note 1, replace "do not contain combustion" with "do not sustain combustion"
- 2.2.3.3 In the list, under classification code F1 for UN Nos. 1987 and 1989, delete "FLAMMABLE,"
- 2.2.41.1.18 In the list of UN Nos. delete "3270,"
- 2.2.41.4 Insert the following note before the table:
"NOTE: For the packing methods, see 4.1.4.1, packing instruction P520, and 4.1.7.1."
- 2.2.61.2.2 Under the second indent, replace "1295 NICKEL CARBONYL" with "1259 NICKEL CARBONYL"
- 2.2.7.2 Under the definition of "small container" replace "an overall outer dimension" with "any overall outer dimension"
- 2.2.7.7.2.1 For Ar-39, read in the A₁ column "4 x 10¹" and in the A₂ column "2 x 10¹"
- 2.2.8.3 Under note f to the table, replace "2.2.61.1.4" with "2.2.61.1.4 to 2.2.61.1.9"
- 2.2.9.1.8 Amend the end to read as follows: "... which meet the descriptions of special provisions 235 or 296 of Chapter 3.3."
- 2.3.4.3 In the Note, replace "2.3.4.2" with "paragraph (b) above".

Table A of Chapter 3.2

In column (8), replace whenever it appears "See 2.7" with "See 2.2.7"

In column (13), delete, whenever they appear, "TE15", "TE16" and "TE17"

In column (13), insert, for all dangerous goods of Classes 6.1 and 6.2 authorized for carriage in tanks, "TE19"

In Column (16), delete, whenever it appears, "V4"

In Column (16), insert for all Class 4.3 goods, "V1"

In Column (17), replace, whenever it appears, "VW08" with "VV8"

In Column (19), replace, whenever it appears, "S17 S20" with "S17"

UN No.	Column No.	Corrections
0340 and 0341	16	Add "V3"
1057	2	Delete "(cigarettes)"
1078	2	Replace "mixture P2" with "mixture F3"
1093	2	Replace "STABILISED" with "STABILIZED"
1139 (for the 8 entries)	2	Add, after "COATING SOLUTION", "(includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)"
1155	2	Amend to read "DIETHYL ETHER (ETHYL ETHER)"
1170, packing group III	2	Delete "ETHANOL (ETHYL ALCOHOL) or"
1263, packing group I	6	Add "640"
1324	2	Add at the end ", except scrap"
1356	2	Insert "(TNT)" after "TRINITROTOLUENE"
1389, 1391, 1392, 1407, 1415, 1420, 1421, 1422, 1423, 1428, 2257	13	Insert "TT3"
1557, 1601, 1655, 2811, 3143 et 3172 (SOLID), packing group I	12	Add "L10CH"

UN No.	Column No.	Corrections
1557, 1601, 1655, 1708 (SOLID), 2588, 2757, 2759, 2761, 2763, 2771, 2775, 2777, 2779, 2781, 2783, 2786, 2811, 3027, 3143, 3172 (SOLID), 3249, 3345 and 3349, packing group III	12	Add "L4BH"
1657	2	Delete ", solid"
1699	20	Replace "60" with "66"
1708, liquid entry	11	Delete "TU15"
1708, solid entry	13	Delete "TT1"
1790 (three entries)	2	Delete ", solution"
1790, packing group II	13	Delete "TE1"
1965	2	Insert "A0," after "A02,"
1989, packing group II, first entry	11	Insert "TP1 TP8 TP28"
1993, packing group III, fourth entry (vapour pressure at 50 °C not more than 110 kPa)	8	Add "IBC02"
1999	2	Insert after "TARS, LIQUID", ", including road asphalt and oils, bitumen and cut backs"
2059 (5 entries)	2	Add, after the proper shipping name, "with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose"
2067 to 2070	6	Delete "193"
2211 and 3314	5	Insert "none"
2426	2	Read as follows: "AMMONIUM NITRATE, LIQUID, hot concentrated solution, in a concentration of more than 80% but not more than 93%"
2426	6	Add "644"
2448	13	Delete "TU32"

UN No.	Column No.	Corrections
2458	2	Correct to read "HEXADIENES"
2660	2	Amend to read "NITROTOLUIDINES (MONO)"
2672	2	Insert, after "SOLUTION," "relative density between 0.880 and 0.957 at 15 °C"
2758, 2760, 2762, 2764, 2772, 2776, 2778, 2780, 2782, 2784, 2787, 3021, 3024, 3346, 3350	2	Add ", flash-point less than 23 °C"
2790, entry of packing group III	2	Amend to read "ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass"
2862	6	Add "600"
2903, 2991, 2993, 2995, 2997, 3005, 3009, 3011, 3013, 3015, 3017, 3019, 3025, 3347, 3351	2	Add ", flash-point not less than 23 °C"
2908-2911, 2913, 2915-2917, 2919, 2977, 2978 and 3323-3333	14	Delete "AT"
2912, 2913, 2916, 2917, 2919, 2977, 2978, 3321-3331 and 3333	19	Delete "S12"
2929	6	Delete "615"
3014, packing group II	11	Insert "TP2 TP13 TP27"
3052 (solid entry)	8	Replace "P400 PR1" with "P404"
3065, entry in packing group II	6	Delete "144 145 247"
3175	2	Read as follows "SOLIDS or mixture of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 61°C"
3176, packing group II	6	Delete "216"
3234	19	Delete "S18"
3240 and 3319	12	Delete "ST(+)"

UN No.	Column No.	Corrections
3254	8	Add "PR1"
3269		Delete the three rows in which a tank code is shown in Column (12)
3269, entry of packing group III	6	Delete "640"
3270	2	Add, at the end ", with not more than 12.6% nitrogen, by dry mass"
3270	6	Add "286"
3284, packing group I	13	Delete "TE2"
3285, packing group I	13	Delete "TE3"
3337	2	Add at the end "(Pentafluoroethane, 1,1,1-trifluoroethane, and 1,1,1,2-tetrafluoroethane zeotropic mixture with approximately 44% pentafluoroethane and 52% 1,1,1-trifluoroethane)"

Add a new entry to read as follows:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9a)
1268	PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.(vapour pressure at 50 °C more than 110 kPa but not more than 175 kPa)	3	F1	I	3	274 640	LQ3	P001	

(9b)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
MP7 MP17	T11	TP1 TP8 TP9	L1.5BN		FL	1				S2 S20	33

Replace the row of UN No. 1989, packing group I with the following two:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9a)
1989	ALDEHYDES, N.O.S. (vapour pressure at 50 °C more than 175 kPa)	3	F1	I	3	274 640	LQ3	P001	

(9b)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
MP7 MP17	T11	TP1 TP9 TP27	L4BN		FL	1				S2 S20	33

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7)	(8)	(9a)
1989	ALDEHYDES, N.O.S. (vapour pressure at 50 °C more than 110 kPa but not more than 175 kPa)	3	F1	I	3	274 640	LQ3	P001	

(9b)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
MP7 MP17	T11	TP1 TP9 TP27	L1.5BN		FL	1				S2 S20	33

3.3.1

SP 193 Delete

SP580 Add "for carriage in bulk" after "specially equipped vehicles" and "specially equipped containers"

SP582 Under "Mixture F1" replace "dichlorodifluoromethane" with "dichlorofluoromethane"

SP583 Replace "Mixture B1 have a vapour pressure at 70 °C not exceeding 2.3 MPa (23 bar) and..." with " Mixture B1, have a vapour pressure at 70 °C not exceeding 2.6 MPa (26 bar) and..."

SP623 In the second sentence, delete "by road"

Add a new special provision to read as follows:

"644 This substance is admitted for carriage provided that:

- The pH is between 5 and 7 measured in an aqueous solution of 10% of the substance carried;
- The solution does not contain more than 0.2% combustible material or chlorine compounds in quantities such that the chlorine level exceeds 0.02%."

3.4.1 Replace "4.1.1.4 " with "4.1.1.4 to 4.1.1.8"

4.1.1.4 Delete "under a particular Class"

4.1.4.1 P101 Replace "(see 5.4.1.2.1 c)" with "(see 5.4.1.2.1 (e))"

P200 B. (7) Amend the end to read as follows: "... outlined in the previous paragraphs of this section B;"

D. (12) z: In the last sentence delete "(see also 5.4.1.1.12)"

P200 Replace the existing row for UN NO. 1020 with the following two:

1020	CHLOROPENTA- FLUOROETHANE (REFRIGERANT GAS R115)	2A	(1),(2),(3),(5)		2.5	10	1.08	n
1021	1-CHLORO-1,2,2,2- TETRAFLUORO- ETHANE (REFRIGERANT GAS R124)	2A	(1),(2),(3),(5)		1.2	10	1.2	n

For UN No. 1975, add in the last column, Special requirements, "I"

Replace the existing row for UN No. 2199 with the following one:

2199	PHOSPHINE ^c	2TF	(1),(5)		22.5	5	0.30	e, g, l, n
					25.0	5	0.51	e, g, l, n

Replace the existing row for UN No. 2599 with the following one:

2599	CHLOROTRIFLUORO- METHANE AND TRIFLUOROMETHANE, AZEOTROPIC MIXTURE with approximately 60% chlorotrifluoromethane (REFRIGERANT GAS R503)	2A	(1),(2),(3),(5)		3.1	10	0.11	n
			(1),(2),(3),(5)		4.2	10	0.20	n
			(1),(2),(3),(5)		10.0	10	0.66	n

P205(1) Replace "The special packing provisions of 4.1.6.1" with "The special packing provisions of 4.1.6"

P406 Under additional requirement 3, replace "maximum permitted quantity per packaging" with "maximum permitted quantity per package"

P410 Under note a delete "inner"

P504 Amend the part of the table for jerricans to read as follow:

Jerricans	
steel, non-removable head (3A1)	60 l
steel, removable head (3A2)	60 l
aluminium, non-removable head (3B1)	60 l
aluminium, removable head (3B2)	60 l
plastics, non-removable head (3H1)	60 l
plastics, removable head (3H2)	60 l

P801 Amend the first sentence to read "This instruction applies to new and used batteries..."

P904 (2) Amend the beginning to read as follows: "Packagings, which need not conform to the packaging test requirements ..."

4.1.4.4 PR4 Amend the first sentence to read "This substance shall be packed in steel..."

PR6 Delete the reference to note b after "a check of its tare."

4.1.9.1.5 Amend the end to read as follows: "...requirements of Chapters 4.1, 4.2 or 4.3 for that subsidiary risk."

4.1.9.2.3 (a) and (b) Replace "conveyance" with "vehicle"

4.1.10.4 MP5 In the second sentence replace "P621" with "P650"

4.3.2.4 Amend the end of the Note under the title to read "... special provisions TU1, TU2, TU4, TU16 and TU35 of 4.3.5 may apply."

4.3.4.1.1 In the table:

- in the second column, under part 3 , replace "6.8.2.2.3" with "6.8.2.2.2";
- in the third column, under part 4, amend the explanations for "V", "F" and "N" as follows:

"V = tank with a venting system, according to 6.8.2.2.6, but no flame trap; or non-explosion-pressure proof tank;

F = tank with a venting system, according to 6.8.2.2.6, fitted with a flame trap; or explosion-pressure proof tank;

N = tank with a safety valve according to 6.8.2.2.7 or 6.8.2.2.8 and not hermetically closed; these tanks may be fitted with vacuum valves;"

4.3.4.1.3 d) Replace "UN No. 2015 hydrogen peroxide with more than 70% hydrogen peroxide" with "UN No. 2015 hydrogen peroxide, aqueous solution, stabilized with more than 70% hydrogen peroxide" and "UN No. 2015 hydrogen peroxide with 60-70% hydrogen peroxide" with "UN No. 2015 hydrogen peroxide, aqueous solution, stabilized with 60-70% hydrogen peroxide"

4.3.5 TU35 Amend the beginning to read as follows: "Empty fixed tanks (tank-vehicles), empty demountable tanks ..."

4.4 and 4.5 Amend the note under the title to read "... for fixed tanks (tank-vehicles), demountable tanks, tank-containers and tank swap bodies, ..."

4.5.2.1 Add "except those of 4.3.2.2.4 and 4.3.2.3.3" after "Chapter 4.3"

5.4.1.1.12 and 5.4.1.1.13

Add the following two new paragraphs

"5.4.1.1.12 Reserved

5.4.1.1.13 *Special provisions for carriage in multi-compartment tank-vehicles or transport units with more than one tank*

When by derogation from 5.3.2.1.2 a multi-compartment tank-vehicle or a transport unit with more than one tank is marked in accordance with 5.3.2.1.3, the substances contained in each tank or in each compartment of a tank shall be specified in the transport document."

5.4.1.2.1 (c) Add "of 4.1.4.1" after "packing instruction P101"

6.1.2.7 In the table, for removable head wooden barrels, replace "2C" with "2C2"

6.1.3.7 Replace " NL/VL/123" with " NL/VL123" and " NL/VL/124" with " NL/VL124"

6.1.3.8 Replace " NL/RB/85/RL" with " NL/RB/85 RL"

6.1.3.9 Replace "1A2T/Y/300/94" with "1A2T/Y300/S/94"

6.1.6.2 Under Class 5.1, delete the reference to footnote 4 after "(UN No. 1973)"

Under Class 8, for the corrosive acid inorganic liquids, without subsidiary risk, replace the classification code "C2" with "C1"

6.2.1.4.3 Replace " the provisions of Class 2" with "the provisions for Class 2"

6.2.1.7.1 (c) Delete "or batch"

6.2.2 In the table, change the order of the titles of the documents in the sixth and seventh row so that directive 84/526/EEC refers to seamless, unalloyed aluminium and aluminium alloy gas cylinders and directive 84/527/EEC refers to welded unalloyed steel gas cylinders

6.2.4.3 Replace "of this paragraph" with "of this section"

6.5.2.2.4 Insert "see" before "6.5.2.1.1 (f)"

6.6.5.4.2 Insert "made" before "available"

6.7.2.1 In the definition of "Design pressure", under (b) (iii) add "or" at the end

6.7.2.4.7 Replace "a minimum thickness of 8 mm, 10 mm or 12 mm" with "a minimum thickness of 8 mm or 10 mm"

6.7.2.12.2.1 Replace the existing formula with the following one

$$Q = 12.4 \frac{FA^{0.82}}{LC} \sqrt{\frac{ZT}{M}}$$

- 6.8.2.1.3 In the left hand column, replace "6.8.2.1.17 and 6.8.2.1.21" with "6.8.2.1.17 to 6.8.2.1.21"
- 6.8.2.3.1 Amend the first sentence to read "... type of tank-vehicle, demountable tank, tank-container, tank swap body, battery-vehicle or MEGC..."
- 6.8.2.4.1 Move the last paragraph before the last but one in order to group the requirements concerning the hydraulic pressure test.
- 8.2.1.2 Replace the reference to "8.2.2.3.3" with "8.2.2.3.2"
- 9.1.2.1.5 In the model of the certificate of approval, under footnote 2, replace "Delete" with "Strike out"
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