



Economic and Social Council

Distr.: General
26 May 2014
English
Original: English and French

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Draft amendments to annexes A and B of ADR

Addendum

At its ninety-sixth session, the Working Party on the Transport of Dangerous Goods requested the secretariat to circulate an additional list of amendments for which the entry into force is scheduled for 1 January 2015 in the form of an addendum to document ECE/TRANS/WP.15/222, which the Chairperson will transmit to Contracting Parties through his Government for acceptance in accordance with the procedure set out in article 14 of ADR (see ECE/TRANS/WP.15/224, paragraph 62).

This document contains the requested additional list of amendments adopted by the Working Party at its ninety-sixth session.

Chapter 1.1

1.1.3.3 Add a new paragraph (c) to read as follows:

"(c) Fuel contained in the tanks of non-road mobile machinery¹ which is carried as a load, when it is destined for its propulsion or the operation of any of its equipment. The fuel may be carried in fixed fuel tanks connected directly to the vehicle engine and/or equipment and which meet the legal requirements. Where appropriate, this machinery shall be loaded upright and secured against falling."

The text of footnote 1 reads as follows:

¹ For the definition of non-road mobile machinery see paragraph 2.7 of the Consolidated Resolution on the Construction of Vehicles (R.E.3) (United Nations document ECE/TRANS/WP.29/78/Rev.3) or Article 2 of Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997 on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery (Official Journal of the European Communities No. L 059 of 27 February 1998)."

Renumber footnote of 1.1.4.3 as footnote 2.

1.1.3.6.3 In the Table, amend the entry for "Class 9" under transport category 4 to read as follows:

"Class 9: UN Nos. 3268, 3499 and 3509".

1.1.3.7 Amend the beginning of the paragraph, before sub-paragraph (a), to read as follows:

"1.1.3.7 *Exemptions related to the carriage of electric energy storage and production systems*

The provisions laid down in ADR do not apply to electric energy storage and production systems (e.g., lithium batteries, electric capacitors, asymmetric capacitors, metal hydride storage systems and fuel cells):"

1.1.3.7 In subparagraphs (a) and (b), delete "Lithium batteries".

Chapter 1.2

1.2.1 Under the definition of "Bulk container", insert the definitions of "*Closed bulk container*" and "*Sheeted bulk container*" contained in 6.11.1 in alphabetical order.

1.2.1 Under the definition of "Tank", replace "as defined in this Part" by "as defined in this Section".

1.2.1 Insert in alphabetical order:

"*Closed bulk container*", see "*Bulk container*";"

"*Sheeted bulk container*", see "*Bulk container*";".

1.2.1 In the definition of "*Service equipment*", in paragraphs (a) and (b), replace "emptying" by "discharge".

In the definition of "*Service equipment*", in paragraph (a), replace "venting" by "breather".

Chapter 1.4

1.4.2.2.1 (f) Replace "danger labels" by: "placards".

Chapter 1.6

1.6.2 Add the following new transitional measure:

"1.6.2.15 Bundles of cylinders periodically inspected before 1 July 2015 which are not marked in accordance with 6.2.3.9.7.3 applicable from 1 January 2015 may be used until the next periodic inspection after 1 July 2015."

1.6.4.31 Delete the transitional measure and insert:

"1.6.4.31 (*Deleted*)".

1.6.4.37 The amendment to the French text does not apply to the English text.

1.6.5.10 At the end, add "Certificates of approval which conform to the model shown in 9.1.3.5 applicable from 1 January 2009 up to 31 December 2014 may continue to be used."

1.6.5 Add the following new transitional measure:

"1.6.5.15 As regards the application of the provisions of Part 9, vehicles first registered or entered into service before 1 November 2014 and which have been approved according to the provisions of the directives repealed by the Regulation (EC) No. 661/2009³, may continue to be used."

The text of footnote 3 reads as follows:

³ Regulation (EC) 661/2009 of 13 July 2009 concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor (Official Journal L 200 of 31.7.2009, p. 1)."

Chapter 1.8

1.8.3.9 Replace "laws, regulations and administrative provisions applicable to the modes of transport concerned" by "applicable laws, regulations and administrative provisions".

1.8.3.13 Delete the last sentence.

1.8.6.4.1 After the first sentence, insert: "In the case of separate accreditation, this entity shall be duly accredited according to standard EN ISO/IEC 17025:2005 and shall be recognised by the inspection body as an independent and impartial testing laboratory in order to perform testing tasks in accordance with its accreditation, or it shall be accredited according to standard EN ISO/IEC 17020:2012 (except clause 8.1.3)."

Chapter 1.9

1.9.5.2.2 Under "Tunnel category D" in the first row of the table, for Class 8, after "COT" add "and UN No. 3507".

Chapter 2.2

2.2.3.1.1 The amendment to the French text does not apply to the English text.

2.2.3.1.4 Amend to read as follows:

"2.2.3.1.4 Viscous flammable liquids such as paints, enamels, lacquers, varnishes, adhesives and polishes having a flash-point of less than 23 °C may be assigned to packing group III in conformity with the procedures prescribed in the Manual of Tests and Criteria, Part III, sub-section 32.3, provided that:

(a) the viscosity² and flash-point are in accordance with the following table:

<i>Kinematic viscosity (extrapolated) ν (at near-zero shear rate) mm²/s at 23°C</i>	<i>Flow-time t in seconds</i>	<i>Jet diameter (mm)</i>	<i>Flash-point, closed-cup (°C)</i>
20 < ν ≤ 80	20 < t ≤ 60	4	above 17
80 < ν ≤ 135	60 < t ≤ 100	4	above 10
135 < ν ≤ 220	20 < t ≤ 32	6	above 5
220 < ν ≤ 300	32 < t ≤ 44	6	above -1
300 < ν ≤ 700	44 < t ≤ 100	6	above -5
700 < ν	100 < t	6	no limit

(b) Less than 3% of the clear solvent layer separates in the solvent separation test;

(c) The mixture or any separated solvent does not meet the criteria for Class 6.1 or Class 8;

(d) The substances are packed in receptacles of not more than 450 litre capacity.

NOTE: *These provisions also apply to mixtures containing no more than 20% nitrocellulose with a nitrogen content not exceeding 12.6% by dry mass. Mixtures containing more than 20% but not more than 55% nitrocellulose with a nitrogen content not exceeding 12.6% by dry mass are substances assigned to UN No. 2059.*

Mixtures having a flash-point below 23 °C and containing:

- *more than 55% nitrocellulose, whatever their nitrogen content; or*
- *not more than 55% nitrocellulose with a nitrogen content above 12.6% by dry mass,*

are substances of Class 1 (UN Nos. 0340 or 0342) or of Class 4.1 (UN Nos. 2555, 2556 or 2557)."

Footnote 2 unchanged.

2.2.52.1.8 At the beginning, delete ", formulations or mixtures of organic peroxides".

2.2.9.1.10.1.3 The amendment to the French text does not apply to the English text.

Chapter 3.2, Table A

For UN Nos. 1011, 1075, 1965, 1969 and 1978, in column (13), insert "TT11".

For UN 1131, in column (13), insert "TU2".

For the entries of UN Nos. 1133, 1139, 1169, 1197, 1210, 1263, 1266, 1286, 1287, 1306, 1866, 1993 and 1999 to which special provision "640F", "640G" or "640H" is assigned in column (6), delete the tank provisions in columns (10), (11), and (12), delete "FL" in column (14) and delete "LP01" in column (8). In column (15), replace "(D/E)" by "(E)".

For the entries of UN Nos. 1133, 1139, 1169, 1197, 1210, 1263, 1266, 1286, 1287, 1306, 1866, 1993 and 1999 to which special provision "640H" is assigned in column (6), insert "BB4" in column (9a) against "IBC02" in column (8).

For UN 1972, in column (6), insert "660".

For UN 3170, PG II and III, in column (18), insert "CV37".

For UN 3507, insert "(D)" in Column (15), at the bottom of the cell.

Chapter 3.3

SP 363 In the first sentence, delete "paragraphs (a) or (b) of".

SP 660 Amend footnote 6 in special provision 660 to read as follows:

⁶ *ECE Regulation No. 110 (Uniform provisions concerning the approval of:*

I. Specific components of motor vehicles using compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system;

II. Vehicles with regard to the installation of specific components of an approved type for the use of compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system.)".

Chapter 4.1

4.1.1.19 At the end, add "and large salvage packagings".

4.1.1.19.1 At the end of the first sentence, add "and in large salvage packagings mentioned in 6.6.5.1.9".

4.1.1.19.1 In the second sentence, after "packaging", insert ", including intermediate bulk container (IBC) and large packaging,".

4.1.1.19.2 In the first and second sentence, after "salvage packaging", insert "or large salvage packaging".

4.1.4.1, P200 (10) u Replace "ISO 7866:1999" with "ISO 7866:2012".

4.1.4.1, P200 In the French text, in Table 3, for UN Nos. 1745, 1746 and 2495, insert "X" in the "pressure drums" column.

4.1.4.2

IBC02 Add the following new special packing provision specific to RID and ADR:

"BB4 For UN Nos. 1133, 1139, 1169, 1197, 1210, 1263, 1266, 1286, 1287, 1306, 1866, 1993 and 1999, assigned to packing group III in accordance with 2.2.3.1.4, IBCs with a capacity greater than 450 litres are not permitted.".

4.1.10.1 In Note 2, replace "goods of Class 7" by "radioactive material".

4.1.10.4 MP 18 In the first indent, delete: "or articles".

4.1.10.4 MP 20 In the second sentence, delete: "and articles".

4.1.10.4 MP 23 In the second sentence, delete: "and articles".

Chapter 4.5

4.5.2.1 Replace "4.5.2.2 to 4.5.2.4" by "4.5.2.2 to 4.5.2.6".

4.5.2 Insert the new sub-sections 4.5.2.5 and 4.5.2.6 to read as follows:

"4.5.2.5 (Reserved)

4.5.2.6 When a vacuum pump/exhauster unit which may provide a source of ignition is used to fill or discharge flammable liquids, precautions shall be taken to avoid ignition of the substance or to avoid the propagation of the effects of the ignition outside the tank itself."

Chapter 5.2

5.2.2.1.11.1 Delete the third sentence which reads: "Each overpack containing radioactive material shall bear at least two labels on opposite sides of the outside of the overpack."

Chapter 5.3

5.3.1.2 The amendment to the French text does not apply to the English text.

5.3.1.4.1 The amendment to the French text does not apply to the English text.

Chapter 5.4

5.4.3.4 The amendment to the French text in the first indent of the first page of the Instructions in writing does not apply to the English text.

5.4.3.4, in the first page of the Instructions in writing, amend the second indent to read as follows:

"- Avoid sources of ignition, in particular, do not smoke, use electronic cigarettes or similar devices or switch on any electrical equipment."

Chapter 6.2

6.2.1.3.6.4.4 The amendment to the French text does not apply to the English text.

6.2.2.1.1 After the entry for ISO 7866:1999, insert a new entry to read as follows:

ISO 7866: 2012	Gas cylinders – Refillable seamless aluminium alloy gas cylinders – Design, construction and testing <i>NOTE: Aluminium alloy 6351A or equivalent shall not be used.</i>	Until further notice
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6.2.2.6.5 The amendment to the French and Russian texts does not apply to the English text.

6.2.2.7.5 The amendment to the French text does not apply to the English text.

6.2.3.1 Add the following new paragraph:

"6.2.3.1.5 Acetylene cylinders shall not be fitted with fusible plugs."

6.2.4.1 Amend the Table, under "for design and construction", as follows:

- For standard "EN 1975:1999 + A1:2003", in column (4), replace "Until 31 December 2014" by "Between 1 January 2009 and 31 December 2016".
- After standard "EN 1975:1999 + A1:2003", insert the following new row:

EN ISO 7866:2012 + AC:2014	Gas cylinders – Refillable seamless aluminium alloy gas cylinders – Design, construction and testing (ISO 7866:2012)	6.2.3.1 and 6.2.3.4	Until further notice	
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Amend the Table, under "for closures", as follows:

- Add the following new rows:

EN 13648-1:2008	Cryogenic vessels – Safety devices for protection against excessive pressure – Part 1: Safety valves for cryogenic service	6.2.3.1 and 6.2.3.4	Until further notice	
EN 1626:2008 (except valve category B)	Cryogenic vessels – Valves for cryogenic service	6.2.3.1 and 6.2.3.4	Until further notice	

6.2.4.2 Amend the Table as follows:

- For standard "EN 12863:2002 + A1:2005", in the last column, replace "Until further notice" by "Until 31 December 2016".
- After standard "EN 12863:2002 + A1:2005", insert the following new row:

EN ISO 10462:2013	Gas cylinders – Acetylene cylinders – Periodic inspection and maintenance (ISO 10462:2013)	Mandatorily from 1 January 2017		
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- Delete the entry for standard "EN 14189:2003".
- For standard "EN ISO 22434:2012", in column "Reference", replace "EN ISO 22434:2012" by "EN ISO 22434:2011".
- For standard "EN ISO 22434:2012", in column "Applicable", replace "Mandatorily from 1 January 2015" by "Until further notice".
- For standard "EN 1440:2008 + A1:2012 (except annexes G and H)", in column "Applicable", replace "Mandatorily from 1 January 2015" by "Until further notice".

Chapter 6.4

6.4.13 b) The amendment to the French text does not apply to the English text.

Chapter 6.8

6.8.2.3.1 The amendment to the French text does not apply to the English text.

6.8.2.6.1 Amend the Table under "for all tanks" as follows:

- For standard "EN 14025:2008", in column (4), replace "Until further notice" by "Between 1 July 2009 and 31 December 2016".
- After standard "EN 14025:2008", insert the following new row:

EN 14025:2013	Tanks for the transport of dangerous	6.8.2.1	Until	
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	goods – Metallic pressure tanks – Design and construction	and 6.8.3.1	further notice	
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Amend the Table under "for tanks for gases of Class 2" as follows:

- After the standard "EN 12493:2008 + A1:2012 (except Annex C)", insert the following new row:

EN 12493:2013 (except Annex C)	LPG equipment and accessories – Welded steel tanks for liquefied petroleum gas (LPG) – Road tankers – Design and manufacture <i>NOTE: Road tankers is to be understood in the meaning of "fixed tanks" and "demountable tanks" as per ADR.</i>	6.8.2.1, 6.8.2.5, 6.8.3.1, 6.8.3.5, 6.8.5.1 to 6.8.5.3	Until further notice	
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- For standard "EN 14398-2:2003 (except Table 1)", in column (2), after the title of the standard, add the following Note:

"NOTE: This standard shall not be used for those gases which are carried at temperatures below -100 °C."

- For standard "EN 14398-2:2003 (except Table 1)", in column (4), replace "Until further notice" by "Between 1 January 2005 and 31 December 2016".
- After standard "EN 14398-2:2003 (except Table 1)", insert the following new row:

EN 14398- 2:2003 + A2:2008	Cryogenic vessels – Large transportable non-vacuum insulated vessels – Part 2: Design, fabrication, inspection and testing <i>NOTE: This standard shall not be used for those gases which are carried at temperatures below -100 °C.</i>	6.8.2.1 (with the exception of 6.8.2.1.17, 6.8.2.1.19 and 6.8.2.1.20), 6.8.2.4, 6.8.3.1 and 6.8.3.4	Until further notice	
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- At the end, add the following row:

EN 1626:2008 (except valve category B)	Cryogenic vessels – Valves for cryogenic service	6.8.2.4 and 6.8.3.4	Until further notice	
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6.8.4 (d) Add the following new special provision TT11 (left hand side only):

"TT11 For fixed tanks (tank-vehicles) and demountable tanks used exclusively for the carriage of LPG, with carbon steel shells and service equipment, the hydraulic pressure test, may, at the time of the periodic inspection and at the request of the applicant, be replaced by the non-destructive testing (NDT) techniques listed below. These techniques may be used either singularly or in combination as deemed suitable by the competent authority, its delegate or inspection body (see special provision TT9):

- EN ISO 17640:2010 – Non-destructive testing of welds – Ultrasonic testing – Techniques, testing levels and assessment,
- EN ISO 17638:2009 – Non-destructive testing of welds – Magnetic particle testing, with indications acceptance in accordance with EN ISO 23278:2009 – Magnetic particle testing of welds. Acceptance levels,
- EN 1711:2000 – Non-destructive testing of welds – Eddy current examination of welds by complex plane analysis,

- EN 14127:2011 – Non-destructive testing – Ultrasonic thickness measurement,

Personnel involved in NDT shall be qualified, certified and have the appropriate theoretical and practical knowledge of the non-destructive tests they perform, specify, supervise, monitor or evaluate in accordance with:

- EN ISO 9712:2012 – Non-destructive testing – Qualification and certification of NDT personnel.

After direct application of heat such as welding or cutting to the pressure containing elements of the tank a hydraulic test shall be carried out in addition to any prescribed NDT.

NDT shall be performed on the areas of the shell and equipment listed in the table below:

Area of shell and equipment	NDT
Shell longitudinal butt welds	100% NDT, using one or more of the following techniques: ultrasonic, magnetic particle or eddy current testing
Shell circumferential butt welds	
Attachments, manway, nozzles and opening welds (internal) direct to the shell	
High stress areas of fastening doubling plates (over the end of the saddle horn, plus 400 mm down each side)	
Piping and other equipment welds	Ultrasonic thickness survey, from inside, on a 150 mm (maximum) spaced grid
Shell, areas that cannot be visually inspected from the outside	

Irrespective of the original design and construction standard or technical code used for the tank, the defect acceptance levels shall be in accordance with the requirements of the relevant parts of EN 14025:2013 (Tanks for the transport of dangerous goods – metallic pressure tanks – design and construction), EN 12493:2013 (LPG equipment and accessories – welded steel tanks for liquefied petroleum gas (LPG) – road tankers – design and manufacture), EN ISO 23278:2009 (Non-destructive testing of welds – magnetic particle testing of welds – acceptance levels) or the acceptance standard referenced in the applicable NDT standard.

If an unacceptable defect is found in the tank by NDT methods it shall be repaired and retested. It is not permitted to hydraulic test the tank without undertaking the required repairs.

The results of the NDT shall be recorded and retained for the lifetime of the tank."

6.8.4 (e) TM3 Amend the first sentence to read:

"Tanks shall also bear, on the plate prescribed in 6.8.2.5.1, the proper shipping name and the maximum permissible load mass in kg for this substance."

Chapter 6.10

6.10.3.8 (b) Replace "to both the inlet and outlet" by "to all openings".

6.10.3.8 (b) The second amendment does not apply to the English text.

Chapter 6.11

6.11.1 Amend to read as follows:

"6.11.1 (Reserved)".

6.11.4.1 In the Note, after "591", insert ", 592".

Chapter 7.1

7.1.3 After "591 (status at 01.10.2007, 3rd edition)", insert "592 (status at 01.10.2013, 2nd edition)".

7.1.3 At the end, after "591", insert ", 592".

Chapter 7.3

7.3.2.4 Delete "(code BK2)".

7.3.2.6.1 b) The amendment to the French text does not apply to the English text.

Chapter 7.5

7.5.1 Add the following new sub-section:

"7.5.1.6 All means of containment shall be loaded and unloaded in conformity with a handling method for which they have been designed and, where required, tested."

7.5.9 Insert the following new sentence at the end "This prohibition of smoking is also applicable to the use of electronic cigarettes and similar devices."

7.5.11 At the end add the following additional provision:

"CV37 Before carriage, aluminium smelting by-products or aluminium remelting by-products shall be cooled to ambient temperature prior to loading. Sheeted vehicles and sheeted containers shall be waterproof. The cargo doors of the closed vehicles and closed containers shall be marked with the following in letters not less than 25 mm high:

"WARNING
CLOSED MEANS OF CONTAINMENT
OPEN WITH CAUTION"

This shall be in a language considered appropriate by the consignor."

Chapter 8.3

8.3.5 Insert the following new sentence at the end "This prohibition of smoking is also applicable to the use of electronic cigarettes and similar devices."

8.3.8 Replace "an O₃ or O₄ trailer" by "a trailer with a maximum mass exceeding 3.5 tonnes,".

8.5 S1 (3) Insert the following new sentence at the end "This prohibition of smoking is also applicable to the use of electronic cigarettes and similar devices."

Chapter 9.1

9.1.1.1 Update the reference to R.E.3 in footnote 1 to read as follows: "Document of the UNECE, TRANS/WP.29/78/Rev.3, as amended".

9.1.1.2 In the definition "Type-approved vehicle", delete "or Directive 98/91/EC³".

9.1.1.2 Delete footnote 3.

9.1.2.1 Renumber footnote 4 as footnote 3.

9.1.2.2 In the second sentence, delete "or Directive 98/91/EC³" and "or the said Directive".

9.1.2.2 Delete footnote 3.

9.1.3.5 In table note 1 of the certificate of approval for vehicles, replace "Directive 97/27/EC" by "Directive 2007/46/EC".

Chapter 9.2

9.2.3.1.1 Delete "or Directive 71/320/EEC⁵".

9.2.3.1.1 Delete footnote 5.

9.2.4.7.1 Delete "or of Directive 2001/56/EC⁷, as amended,".

9.2.4.7.1 Delete footnote 7.

9.2.5 In footnote 8, delete "As an alternative, the corresponding provisions of directive 92/24/EEC of the Council of 31 March 1992 (originally published in the Official Journal of the European Communities No. L 129 of 14.05.1992), as amended, may apply provided that they have been amended in accordance with the latest amended form of ECE Regulation No. 89 applicable at the time of the vehicle approval."

9.2.6 Delete "or Directive 94/20/EC¹⁰".

9.2.6 Delete footnote 10.

In Chapter 9.2, renumber footnotes 3 and 4 as footnotes 2 and 3 respectively, renumber footnote 6 as footnote 4 and renumber footnotes 8 and 9 as footnotes 5 and 6 respectively.
