
Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Dangerous Goods****100th session**

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Item 5 of the provisional agenda

Work of the RID/ADR/ADN Joint Meeting**12 April 2016****Texts adopted by the Joint Meeting: amendments to ADR for entry into force on 1 January 2017****Note by the secretariat****Revision**

The secretariat reproduces hereafter the proposals of amendments to ADR and corrections to the already adopted amendments for entry into force on 1 January 2017 as adopted by the Joint Meeting at its March 2016 session (ECE/TRANS/WP.15/AC.1/142/Add.2).

I. Corrections to the draft amendments in ECE/TRANS/WP.15/231**Amendment to Part 1, Chapter 1.1, first sentence of third paragraph of 1.1.3.3 (a)***Delete**(Reference documents: ECE/TRANS/WP.15/AC.1/2016/16, informal documents INF.52 and INF.60)***Amendments to Part 1, Chapter 1.6, 1.6.1.20, 1.6.1.28, 1.6.1.30, 1.6.1.31, 1.6.1.32***Delete 1.6.10.30***Amendments to Part 1, Chapter 1.6, new transitional measures 1.6.1.37 to 1.6.1.41***Renumber* as transitional measures 1.6.1.38 to 1.6.1.42.**Amendments to Part 1, Chapter 1.8, 1.8.3.12.4 (a)**For the existing text, *substitute*

1.8.3.12.4 (a) Amend the fourth indent to read as follows: “- danger marking, labelling and placarding;”.

Amendment to Part 2, Chapter 2.2, 2.2.9.1.14, first amendment

For “Engines and machinery, internal combustion.” *read* “Vehicles, engines and machinery, internal combustion.”

(Reference document: informal document INF.5)

Amendment to Part 3, Chapter 3.2, Table A, new entries 0015, 0016 and 0303, column (18)

Insert CV28

(Reference document: informal document INF.5)

Amendment to Part 3, Chapter 3.3, special provision 363, in the Note after paragraph (a)

For 1.1.3.3 read 1.1.3.2 (a), (d) and (e), 1.1.3.3 and 1.1.3.7

(Reference document ECE/TRANS/WP.15/AC.1/2016/16)

Amendment to Part 3, Chapter 3.3, new special provision 378, in the Note under sub-paragraph e)

For ISO 9001:2008 read ISO 9001

(Reference document: informal document INF.57)

Amendment to Part 3, Chapter 3.3, new special provision 666 sub-paragraph (a)

Not applicable to English

(Reference document ECE/TRANS/WP.15/AC.1/2016/16)

Amendment to Part 3, Chapter 3.3, new special provision 666 sub-paragraph (b), at the end

Insert unless it is essential for the equipment to remain operational

(Reference document ECE/TRANS/WP.15/AC.1/2016/16)

Amendment to Part 4, Chapter 4.1, 4.1.1.19.1

For the existing text, substitute

4.1.1.19.1 Amend the second sentence to read as follows: “This does not prevent the use of a larger size packaging, an IBC of type 11A or a large packaging of appropriate type and performance level and under the conditions of 4.1.1.19.2 and 4.1.1.19.3.”.

(Reference document: informal document INF.14, as amended)

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P200 (5), sub-paragraph (e), first paragraph

For liquid phase read liquefied gas

(Reference document: ECE/TRANS/WP.15/AC.1/2016/4)

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P200 (5), sub-paragraph (e), in (i), (iv) and (v)

For liquid component *read* liquefied gas

(Reference document: ECE/TRANS/WP.15/AC.1/2016/4)

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P200 (5), sub-paragraph (e), last paragraph

For liquid component *read* liquid phase

(Reference document: ECE/TRANS/WP.15/AC.1/2016/4)

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P206 (3), first sub-paragraph

For the liquid phase *read* the liquid

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P206 (3), sub-paragraphs (a), (d) and (e)

For the liquid component *read* the liquid

Amendment to Part 4, Chapter 4.1, 4.1.4.1, P206 (3), last sub-paragraph

For the liquid component *read* the liquid phase

(Reference document: ECE/TRANS/WP.15/AC.1/2016/4)

Amendment to Part 4, Chapter 4.1, 4.1.4.1, new packing instruction P910 (3), first sentence

For the existing text, *substitute*

The equipment or the batteries may be carried unpackaged under conditions specified by the competent authority of any Contracting Party to ADR, which may also recognize an approval granted by the competent authority of a country which is not a Contracting Party to ADR, provided that this approval has been granted in accordance with the procedures applicable according to RID, ADR, ADN, the IMDG Code or the ICAO Technical Instructions.

(Reference document: informal document INF.6)

Amendments to Part 4, Chapter 4.3, TU16 and TU21

For the existing text, *substitute*

4.3.5 Amend TU16 and TU21 to read as follows:

“TU16 When handed over for carriage, uncleaned empty tanks shall be filled with a protective agent fulfilling one of the following measures:

Protective agent	Degree of filling of water	Additional requirements for carriage at low ambient temperatures
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Protective agent	Degree of filling of water	Additional requirements for carriage at low ambient temperatures
Nitrogen ^a	–	
Water and nitrogen ^a	–	
Water	not less than 96 % and not more than 98 %	The water shall contain sufficient anti-freeze agent to prevent it from freezing. The anti-freeze agent shall be free from corrosive action and not liable to react with the substance.

^a *The tank shall be filled with nitrogen in such a way that, even after cooling, the pressure at no time falls below atmospheric pressure. The tank shall be closed in such a way that no leakage of gas occurs.*

“TU21 The substance shall be protected by a protective agent in the following ways:

Protective agent	A layer of water in the tank	Degree of filling of the substance (including water if any) at a temperature of 60° C shall not exceed	Additional requirements for carriage at low ambient temperatures
Nitrogen ^a	–	96 %	–
Water and nitrogen ^a	–	98 %	The water shall contain sufficient anti-freeze agent to prevent it from freezing. The anti-freeze agent shall be free from corrosive action and not liable to react with the substance.
Water	not less than 12 cm	98 %	

^a *The remaining space of the tank shall be filled with nitrogen in such a way that, even after cooling, the pressure at no time falls below atmospheric pressure. The tank shall be closed in such a way that no leakage of gas occurs.”.*

(Reference documents: informal documents INF.16 and INF.61)

Amendment to Part 5, Chapter 5.5, 5.5.3.3.3, at the end of the second indent of the amended text

For where this requirement is fulfilled read and separated from the driver’s cabin

(Reference document: informal document INF.59, alternative 3)

Amendment to Part 6, Chapter 6.2, 6.2.4.1, new row for EN 14140:2014 +AC:2015, in the first column, after AC:2015

Insert (except over-moulded cylinders)

(Reference document: informal document INF.57)

Amendment to Part 6, Chapter 6.8, 6.8.2.6.1, table, under “For design and construction of tanks”, new entry for standard EN 12493:2013 + A1:2014, first column

For EN 12493:2013 + A1:2014 (except Annex C) read EN 12493:2013 + A1:2014 + AC:2015 (except Annex C)

(Reference document: informal document INF.57)

Amendment to Part 6, Chapter 6.8, 6.8.4, special provision TT11

For EN 12493:2013 + A1:2014 read EN 12493:2013 + A1:2014 + AC:2015

(Reference document: informal document INF.57)

Amendment to Part 7, Chapter 7.5, new 7.5.7.6.1, in the Note

For IMO/ILO/UNECE Guidelines for Packing Cargo Transport Units (CTUs) read IMO/ILO/UNECE Code of Practice for Packing of Cargo Transport Units (CTU Code)

(Reference document: informal document INF.19)

II. Draft new amendments for entry into force on 1 January 2017

Chapter 1.1

1.1.3.2 (a) At the end, add the following Note:

“NOTE: A container fitted with equipment for use during carriage, secured on a vehicle, is considered as an integral part of the vehicle and benefits from the same exemptions as regards the fuel necessary to operate the equipment.”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/16, informal documents INF.52 and INF.60, as amended)

1.1.3.3 (a) At the end, add the following Note:

“NOTE: A container fitted with equipment for use during carriage, secured on a vehicle, is considered as an integral part of the vehicle and benefits from the same exemptions as regards the fuel necessary to operate the equipment.”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/16, informal documents INF.52 and INF.60, as amended)

1.1.3.10 (b) In the Note after subparagraph (i), replace “ISO 9001:2008” by “ISO 9001”.

(Reference document: informal document INF.57)

Chapter 1.2

1.2.1 The amendment to the definition of “Recycled plastics material” does not apply to the English text.

(Reference documents: informal document INF.15)

1.2.1 Amend the definition of “Maximum working pressure (gauge pressure)” as follows:

– Amend the introductory sentence to read as follows:

““Maximum working pressure (gauge pressure)” means the highest of the following three pressures that may occur at the top of the tank in the operating position:”.

– The second and third amendments do not apply to the English text.

– After the definition, insert a Note 1 to read as follows:

“NOTE 1: Maximum working pressure is not applicable to gravity-discharge tanks according to 6.8.2.1.14 (a).”.

Renumber Notes 1 and 2 as Notes 2 and 3.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/17 and informal documents INF.49 and INF.61)

Chapter 1.4

1.4.2.2.1 In paragraph (d), in the Note, before “4.3.2.4.4”, insert: “4.3.2.3.7”.

(Reference documents: informal documents INF.21 and INF.61)

Chapter 1.6

1.6.1.30 Amend to read as follows:

“1.6.1.30 Labels which meet the requirements of 5.2.2.2.1.1 applicable up to 31 December 2014, may continue to be used until 30 June 2019.”.

(Reference document: informal document INF.11, as amended)

1.6.1 Add the following transitional measure:

“1.6.1.37 *(Reserved)*”.

1.6.3 Add the following transitional measure:

“1.6.3.46 Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2017 in accordance with the requirements in force up to 31 December 2016 but which do not however conform to the requirements of 6.8.2.1.23 applicable as from 1 January 2017 may still be used.”

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/13, informal documents INF.17, INF.49 and INF.61)

1.6.4 Add the following transitional measure:

“1.6.4.48 Tank-containers constructed before 1 July 2017 in accordance with the requirements in force up to 31 December 2016 but which do not however conform to the requirements of 6.8.2.1.23 applicable as from 1 January 2017 may still be used.”

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/13, informal documents INF.17, INF.49 and INF.61)

Chapter 1.8

1.8.6.2.3 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

Chapter 2.1

2.1.1.2 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

2.1.4.2 (e) The amendment does not apply to the English text.

(Reference document: informal document INF.15)

Chapter 2.2

2.2.1.1.5 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

2.2.1.4 The amendments do not apply to the English text.

(Reference document: informal document INF.15)

2.2.2.1.7 (c) and (d) The amendment does not apply to the English text.

(Reference document: informal document INF.15)

2.2.43.1.2 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

2.2.52.1.6 In the third sentence, replace “in one packaging” by “in one package”.

(Reference document: informal document INF.15)

2.2.61.1.14 Amend to read as follows:

“2.2.61.1.14 Substances, solutions and mixtures, with the exception of substances and preparations used as pesticides, which are not classified as acute toxic category 1, 2 or 3 according to Regulation (EC) No 1272/2008³, may be considered as substances not belonging to class 6.1.”.

³ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC; and amending Regulation (EC) No 1907/2006, published in the Official Journal of the European Union, L 353, 31 December 2008, p 1-1355.

Existing footnotes 3 and 4 are deleted. Renumber subsequent footnotes accordingly.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/2 and informal document INF.54/Rev.2)

2.2.8.1.9 Amend to read as follows:

“2.2.8.1.9 Substances, solutions and mixtures, which are not classified as corrosive to skin or metal of category 1 according to Regulation (EC) No 1272/2008³ may be considered as substances not belonging to Class 8.”.

The note remains unchanged.

³ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC; and amending Regulation (EC) No 1907/2006, published in the Official Journal of the European Union, L 353, 31 December 2008, p 1-1355.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/2 and informal document INF.54/Rev.2)

2.2.9.1.10.2.6 (c) Delete “or mixture”.

(Reference document: informal document INF.15)

2.2.9.1.10.5 Renumber the reference to the footnote after “1272/2008/EC” as 3. Footnote 3 reads as follows:

“³ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC; and amending Regulation (EC) No 1907/2006, published in the Official Journal of the European Union, L 353, 31 December 2008, p 1-1355.”.

At the end of paragraph (a), delete: “or, if still relevant according to the said Regulation, risk phrase(s) R50, R50/53 or R51/53 according to the Directives 67/548/EEC³ or 1999/45/EC⁴”.

Amend paragraph (b) to read as follows: “(b) May be regarded as not being an environmentally hazardous substance (aquatic environment) if it does not have to be assigned such a category according to the said Regulation.”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/2 and informal document INF.54/Rev.2)

2.3.1.4 Replace “iron plate” by “lead plate”.

(Reference document: informal document INF.15)

Chapter 3.2, Table A

For UN numbers 1133, 1139, 1169, 1197, 1210, 1263, 1266, 1286, 1287, 1306, 1866, 1993 and 1999, for each first entry for packing group III, in column (6), delete: “640E”.

(Reference document: informal document INF.36)

For UN Nos. 3166, 3171, 3528, 3529 and 3530, in column (6), insert: “669”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/16, informal documents INF.52 and INF.60, as amended)

Chapter 3.3

SP 342 (b) The amendment does not apply to the English text.

(Reference document: informal document INF.15)

SP 373 (a) In the Note after subparagraph (iii), replace “ISO 9001:2008” by “ISO 9001”.

(Reference document: informal document INF.57)

SP 528 Replace “articles of Class 4.1” by “substances of Class 4.1”.

(Reference document: informal document INF.15)

SP 531 After “Class 4.1”, insert “(UN Nos. 2555, 2556 or 2557)”.

(Reference document: informal document INF.15)

SP 592 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

SP 636 (b) Amend the text before subparagraph (i) to read as follows:

“(b) Up to the intermediate processing facility:

- lithium cells and batteries with a gross mass of not more than 500 g each or lithium ion cells with a Watt-hour rating of not more than 20 Wh, lithium ion batteries with a Watt-hour rating of not more than 100 Wh, lithium metal cells with a lithium content of not more than 1 g and lithium metal batteries with an aggregate lithium content of not more than 2 g, not contained in equipment, collected and handed over for carriage for sorting, disposal or recycling; as well as
- lithium cells and batteries contained in equipment from private households collected and handed over for carriage for depollution, dismantling, recycling or disposal.

NOTE: “Equipment from private households” means equipment which comes from private households and equipment which comes from commercial, industrial, institutional and other sources which, because of its nature and quantity, is similar to that from private households. Equipment likely to be used by both private

households and users other than private households shall in any event be considered to be equipment from private households.

are not subject to the other provisions of ADR including special provision 376 and paragraph 2.2.9.1.7, if they meet the following conditions:".

SP 636 (b) Amend subparagraph (iii) to read as follows:

"(iii) Packages are marked "LITHIUM BATTERIES FOR DISPOSAL" or "LITHIUM BATTERIES FOR RECYCLING" as appropriate.

If equipment containing lithium cells or batteries is carried unpackaged or on pallets in accordance with packing instruction P 909 (3) of 4.1.4.1, this mark may alternatively be affixed to the external surface of the vehicles or containers."

(Ref.: ECE/TRANS/WP.15/AC.1/140/Add.1, part B and informal document INF.26)

Add the following new special provision:

"669 A trailer fitted with equipment, powered by a liquid or gaseous fuel or an electric energy storage and production system, that is intended for use during carriage operated by this trailer as a part of a transport unit, shall be assigned to UN numbers 3166 or 3171 and be subject to the same conditions as specified for these UN numbers, when carried as a load on a vehicle, provided that the total capacity of the tanks containing liquid fuel does not exceed 500 litres."

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/16, informal documents INF.52 and INF.60, as amended)

Chapter 4.1

4.1.3.4 Under "Boxes", after "4B,", insert: "4N,".

(Reference document: informal document INF.20)

4.1.4.1 For packing instruction P101 Replace "The State's distinguishing sign for motor vehicles in international traffic" by "The distinguishing sign used on vehicles in international road traffic ^a".

Table note a reads as follows:

^a Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968."

(Reference document: informal document INF.41)

P 200 In paragraphs (12) and (13), at the end of subparagraph 1.1, add: "(for the definitions of Xb and IS bodies, see 6.2.3.6.1)."

(Reference document: informal document INF.23)

4.1.4.1, P400 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

4.1.4.1, P620 The amendment to the introductory sentence of additional requirement 2 does not apply to the English text. In sub-paragraph (c) of additional requirement 2, in the third sentence, replace "Provisions for the consignment" by "Provisions for the carriage".

(Reference document: informal document INF.15)

4.1.4.1, P906 (2) In the introductory sentence and in paragraph (b), replace “devices” by “articles” (three times).

(Reference document: informal document INF.24)

4.1.4.2, IBC02 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

4.1.4.2, IBC520 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

4.1.5.17 Amend the text in brackets to read as follows: “(1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 4A, 4B, 4N and metal receptacles)”.

(Reference document: informal document INF.20)

4.1.10.1 The amendment to the German version does not apply to the English, French and Russian versions.

(Reference document: informal document INF.15)

4.1.10.4 Delete MP 16 and insert:
“MP 16 (Reserved);”.

(Reference document: informal document INF.44)

Chapter 4.2

4.2.5.3, TP7, TP24 and TP36 The amendments do not apply to the English text.

(Reference document: informal document INF.61)

Chapter 4.3

4.3.2.1.7 In the second paragraph, after “shall be transferred”, insert: “without delay”.

(Reference documents: informal documents INF.5 and INF.61)

4.3.2.3 Insert a new 4.3.2.3.7 to read as follows:

“4.3.2.3.7 Fixed tanks (tank-vehicles), demountable tanks, battery-vehicles, tank-containers, tank swap bodies and MEGCs may not be filled or offered for carriage after the deadline for the test or inspection required by 6.8.2.4.2, 6.8.3.4.6 and 6.8.3.4.10 has expired.

However, fixed tanks (tank-vehicles), demountable tanks, battery-vehicles, tank-containers, tank swap bodies and MEGCs filled prior to the date of expiry of the last periodic inspection may be carried:

- (a) for a period not to exceed one month after the expiry of these deadlines;
- (b) unless otherwise approved by the competent authority, for a period not to exceed three months after the expiry of these deadlines in order to allow the return of dangerous goods for proper disposal or recycling. Reference to this exemption shall be mentioned in the transport document.”.

(Reference documents: informal documents INF.21 and INF.61)

Chapter 5.2

5.2.1.7.4 In paragraph (c), replace “with the international vehicle registration code (VRI-Code)” by “with the distinguishing sign used on vehicles in international road traffic”. Amend footnote 2 to read as follows:

“² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”.

(Reference document: informal document INF.41)

5.2.2.2.2 Amend the title of label No. 4.1 to read as follows:

“CLASS 4.1 HAZARD Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives”.

(Reference document: informal document INF.7)

Chapter 5.4

5.4.1.1.11 Amend to read as follows:

“5.4.1.1.11 *Special provisions for the carriage of IBCs, tanks, battery-vehicles, portable tanks and MEGCs after the date of expiry of the last periodic test or inspection*

For carriage in accordance with 4.1.2.2 (b), 4.3.2.3.7 (b), 6.7.2.19.6 (b), 6.7.3.15.6 (b) or 6.7.4.14.6 (b), a statement to this effect shall be included in the transport document, as follows:

“CARRIAGE IN ACCORDANCE WITH 4.1.2.2 (b)”,

“CARRIAGE IN ACCORDANCE WITH 4.3.2.3.7 (b)”,

“CARRIAGE IN ACCORDANCE WITH 6.7.2.19.6 (b)”,

“CARRIAGE IN ACCORDANCE WITH 6.7.3.15.6 (b)”; or

“CARRIAGE IN ACCORDANCE WITH 6.7.4.14.6 (b)” as appropriate.

(Reference documents: informal documents INF.21 and INF.61)

5.4.1.2.1 In Note 2, replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows:

“³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”.

(Reference document: informal document INF.41)

5.4.2 Amend the title to read as follows: “Container/vehicle packing certificate”.

At the end of the first paragraph, add the following sentence: “If the carriage of dangerous goods in a vehicle precedes a voyage by sea, a container/vehicle packing certificate conforming to section 5.4.2 of the IMDG Code may be provided with the transport document.”.

In the second sentence of the second paragraph, after “container”, insert: “or vehicle”.

(Reference document: informal document INF.5)

5.4.2 At the end of footnote 5, replace “(“IMO/ILO/UNECE Guidelines for Packing of Cargo Transport Units (CTUs)””)” by “(“IMO/ILO/UNECE Code of Practice for Packing of Cargo Transport Units (CTU Code)””)”.

(Reference document: informal document INF.19)

5.4.3.4 In the model of the instructions in writing, amend the description of the hazards of label 4.1 in column 1 to read as follows: “Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives”.

(Reference document: informal document INF.7)

Chapter 6.1

6.1.1.1 e) and 6.1.2.4 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

6.1.3.1 (f) Replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “3 Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.1.3.8 (h) Replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “3 Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.1.4.2.2, 6.1.4.3.2, 6.1.4.4.2 and 6.1.4.5.4 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

Chapter 6.2

6.2.1.3.6.4.4 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.2.2 The Note at the end becomes Note 1. Add a new Note 2 to read as follows:

“**NOTE 2:** When EN ISO versions of the following ISO standards are available, they may be used to fulfil the requirements of 6.2.2.1, 6.2.2.2, 6.2.2.3 and 6.2.2.4.”.

(Reference document: informal document INF.57)

6.2.2.3 For standard “ISO 10297:2006”, in column (2), delete the Note.

(Reference document: informal document INF.57)

6.2.2.7.2 (c) Replace “indicated by the distinguishing signs for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.2.2.7.4 (n) Replace “indicated by the distinguishing signs for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.2.2.7.7 (a) Replace “indicated by the distinguishing signs of motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.2.2.9.2 (c) and (h) Replace “indicated by the distinguishing signs of motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.2.2.9.4 (a) Replace “indicated by the distinguishing sign of motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.2.2.10.2 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

6.2.3.5.1 The Note becomes Note 1. Add the following Notes 2 and 3:

“NOTE 2: For seamless steel cylinders and tubes the check of 6.2.1.6.1 (b) and the hydraulic pressure test of 6.2.1.6.1 (d) may be replaced by a procedure conforming to EN ISO 16148:[2016] “Gas cylinders – Refillable seamless steel gas cylinders and tubes – Acoustic emission examination (AT) and follow-up ultrasonic examination (UT) for periodic inspection and testing”.

NOTE 3: The check of 6.2.1.6.1 (b) and the hydraulic pressure test of 6.2.1.6.1 (d) may be replaced by ultrasonic examination carried out in accordance with EN 1802:2002 for

seamless aluminium alloy gas cylinders and in accordance with EN 1968:2002 + A1:2005 for seamless steel gas cylinders.”.

(Reference document: informal document INF.57)

6.2.3.9.7.3 (a) Replace “indicated by the distinguishing sign of motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 3 to read as follows: “³ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

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

- For standard “EN 12205:2001”, in column (4), replace “Until further notice” by “Between 1 January 2005 and 31 December 2017”.
- For standard “EN 12205:2001”, in column (5), insert: “31 December 2018”.
- After standard “EN 12205:2001”, insert the following new row:

EN ISO 11118:2015	Gas cylinders – Non-refillable metallic gas cylinders – Specification and test methods	6.2.3.1, 6.2.3.3 and 6.2.3.4	Until further notice	
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Amend the Table, under “for closures”, as follows:

- For standard “EN 13340:2001”, in column (4), replace “Until further notice” by “Between 1 January 2011 and 31 December 2017”.
- For standard “EN 13340:2001”, in column (5), insert: “31 December 2018”.

(Reference document: informal document INF.57)

6.2.4.2 Amend the Table as follows:

- Delete the whole row for standard “EN 12863:2002 + A1:2005”.
- For standard “EN ISO 10462:2013”, in column (3), replace “Mandatorily from 1 January 2017” by “Until further notice”.
- For standard “EN ISO 11623:2002 (except clause 4)”, in column (3), replace “Until further notice” by “Until 31 December 2018”.
- After standard “EN ISO 11623:2002 (except clause 4)”, insert the following new row:

EN ISO 11623:2015	Gas cylinders – Composite construction – Periodic inspection and testing	Mandatorily from 1 January 2019
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- For standard “EN 1440:2008 + A1:2012 (except Annexes G and H)”, in column (3), replace “Until further notice” by “Until 31 December 2018”.
- After standard “EN 1440:2008 + A1:2012 (except Annexes G and H)”, insert the following new rows:

EN 1440:2016 (except Annex	LPG equipment and accessories – Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders –	Mandatorily from 1 January 2019
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C)	Periodic inspection	
EN 16728:2016 (except clause 3.5, Annex F and Annex G)	LPG equipment and accessories – Transportable refillable LPG cylinders other than traditional welded and brazed steel cylinders – Periodic inspection	Mandatorily from 1 January 2019

(Reference document: informal document INF.57)

Chapter 6.3

6.3.1.1 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

6.3.4.2 (e) Replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 2 to read as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

Chapter 6.4

6.4.5.4.4 c) The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.4.23.11 In paragraph (a), replace “the international vehicle registration identification code” by “the distinguishing sign used on vehicles in international road traffic”. Amend footnote 1 to read as follows: “¹ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

Chapter 6.5

6.5.1.4.4 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.5.2.1.1 (e) Replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 2 to read as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.5.5.1.7 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.5.5.4.17 and 6.5.5.5.3 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

Chapter 6.6

6.6.3.1 (e) Replace “indicated by the distinguishing sign for motor vehicles in international traffic” by “indicated by the distinguishing sign used on vehicles in international road traffic”. Amend footnote 2 to read as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.6.5.1.7 The amendment does not apply to the English text.

(Reference document: informal document INF.15)

Chapter 6.7

6.7.2.2.1 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.2.2.7 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

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

(Reference document: informal document INF.44)

6.7.2.10.1 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.7.2.15.1 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.7.2.18.1 In the fourth sentence, replace “i.e. the distinguishing sign for use in international traffic as prescribed by the Convention on Road Traffic, Vienna 1968” by “indicated by the distinguishing sign used on vehicles in international road traffic²”. Footnote 2 reads as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”. In Chapter 6.7, renumber subsequent footnotes accordingly.

Renumber subsequent footnotes accordingly.

(Reference document: informal document INF.41)

6.7.2.19.10 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.2.20.1 and Figure 6.7.2.20.1 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

6.7.3.1 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.3.2.1 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

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

(Reference document: informal document INF.44)

6.7.3.11.1 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.7.3.14.1 In the fourth sentence, replace “i.e. the distinguishing sign for use in international traffic, as prescribed by the Convention on Road Traffic, Vienna 1968” by “indicated by the distinguishing sign used on vehicles in international road traffic^{8/2}”. Footnote 2 reads as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.7.3.15.10 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.3.16.1 and Figure 6.7.3.16.1 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

6.7.4.1 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.4.2.1 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

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

(Reference document: informal document INF.44)

6.7.4.10.1 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.7.4.13.1 In the fourth sentence, replace “i.e. the distinguishing sign for use in international traffic as presented by the Convention on Road Traffic, Vienna 1968” by “indicated by the distinguishing sign for use in international road traffic²”. Footnote 2 reads as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”

(Reference document: informal document INF.41)

6.7.4.14.11 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.4.15.1 and Figure 6.7.4.15.1 The amendments do not apply to the English text.

(Reference document: informal document INF.44)

6.7.5.3.2 The amendment does not apply to the English text.

(Reference document: informal document INF.44)

6.7.5.8.1 The amendment does not apply to the English text.

(Reference document: informal document INF.61)

6.7.5.11.1 In the fourth sentence, replace “i.e. the distinguishing sign for use in international traffic, as prescribed by the Convention on Road Traffic, Vienna 1968” by “indicated by the distinguishing sign used on vehicles in international road traffic²”. Footnote 2 reads as follows: “² Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”.

(Reference document: informal document INF.41)

Chapter 6.8

6.8.2.1.23 Amend to read as follows:

“6.8.2.1.23 The ability of the manufacturer to perform welding operations shall be verified and confirmed by either the competent authority or by the body designated by this authority, which issues the type approval. A weld quality assurance system shall be operated by the manufacturer. Welding shall be performed by qualified welders using a qualified welding process whose effectiveness (including any heat treatments required) has been demonstrated by tests. Non-destructive tests shall be carried out by radiography or by ultrasound and shall confirm that the quality of the welding is appropriate to the stresses.

The following checks shall be carried out for welds made by each welding process used by the manufacturer in accordance with the value of the coefficient λ used in determining the thickness of the shell in 6.8.2.1.17:

$\lambda = 0.8$: All weld beads shall so far as possible be inspected visually on both faces and shall be subjected to non-destructive checks. The non-destructive checks shall include all weld “Tee” junctions and all inserts used to avoid welds crossing. The total length of welds to be examined shall not be less than:

10% of the length of all the longitudinal welds,

10% of the length of all the circumferential welds,

10% of the length of all the circumferential welds in the tank ends, and

10% of the length of all the radial welds in the tank ends.

$\lambda = 0.9$: All weld beads shall so far as possible be inspected visually on both faces and shall be subjected to non-destructive checks. The non-destructive checks shall include all connections, inserts used to avoid welds crossing, and welds for the assembly of large-diameter items of equipment. The total length of welds to be examined shall not be less than:

100% of the length of all the longitudinal welds,

25% of the length of all the circumferential welds,

25% of the length of all the circumferential welds in the tank ends, and

25% of the length of all the radial welds in the tank ends.

$\lambda = 1$: All weld beads throughout their length shall be subjected to non-destructive checks and shall so far as possible be inspected visually on both faces. A weld test-piece shall be taken.

In the cases of either $\lambda = 0.8$ or $\lambda = 0.9$, when the presence of an unacceptable defect is detected in a portion of a weld, the non-destructive checks shall be extended to a portion of equal length on both sides of the portion that contains the defect. If the non-destructive

checks detect an additional defect that is unacceptable, non-destructive checks shall be extended to all remaining welds of the same type of welding process.

Where either the competent authority or a body designated by this authority has doubts regarding the quality of welds, including the welds made to repair any defects revealed by the non-destructive checks, it may require additional checks.”

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/13, informal documents INF.17, INF.49 and INF.61)

6.8.2.3.1 In the second indent on the right hand column, replace “distinguishing sign” by “distinguishing sign used on vehicles in international road traffic”. Amend footnote 8 to read as follows: “⁸ Distinguishing sign of the State of registration used on motor vehicles and trailers in international road traffic, e.g. in accordance with the Geneva Convention on Road Traffic of 1949 or the Vienna Convention on Road Traffic of 1968.”.

(Reference document: informal document INF.41)

6.8.2.4.1 Amend the fourth paragraph from below in the left-hand column to read:

“The test shall be carried out on each compartment at a pressure at least equal to:

- 1.3 times the maximum working pressure; or
- 1.3 times the static pressure of the substance to be carried but not less than 1.3 times the static pressure of water with a minimum of 20 kPa (0.2 bar) for gravity-discharge tanks according to 6.8.2.1.14 (a).”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/17 and informal documents INF.49 and INF.61)

6.8.2.4.3 Amend the penultimate paragraph of 6.8.2.4.3 to read as follows:

“For tanks equipped with breather devices and a safety device to prevent the contents spilling out if the tank overturns, the leakproofness test shall be carried out at a pressure at least equal to the static pressure of the densest substance to be carried, the static pressure of water or 20 kPa (0.2 bar) whichever is the highest.”

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/17 and informal documents INF.49 and INF.61)

6.8.2.6.1 Amend the Table as follows:

- For standard “EN 14025:2013”, in column (4), replace “Until further notice” by “Between 1 January 2015 and 31 December 2018”.
- After standard “EN 14025:2013”, insert the following new standard:

EN 14025:2013+ A1:[2016] (except Annex B)	Tanks for the transport of dangerous goods – Metallic pressure tanks – Design and construction	6.8.2.1 and 6.8.3.1	Until further notice	
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- For standard “EN 14595:2005”, in column (4), replace “Until further notice” by “Between 1 January 2007 and 31 December 2018”.
- After standard “EN 14595:2005”, insert the following new row:

EN 14595:[2016]	Tanks for transport of dangerous goods – Service equipment – Breather device	6.8.2.2 and 6.8.2.4.1	Until further notice	
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6.8.3.1.5 Amend the first sentence to read:

“Elements and their fastenings

of battery vehicles | and the frame of MEGCs
shall be capable of absorbing under the maximum permissible load the forces de-fined in
6.8.2.1.2.”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/11 and informal document INF.61)

6.8.4, special provision TT11 In the paragraph after the Table, amend
“EN 14025:2013” to read: “EN 14025:2013 + A1:[2016]”.

(Reference document: informal document INF.57)

Chapter 7.1

7.1.3 At the beginning, after “portable tanks”, insert: “, MEGCs,”. At the end, after
“portable tank”, insert: “, MEGC”.

(Reference documents: ECE/TRANS/WP.15/AC.1/2016/11 and informal document INF.61)
