

Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Dangerous Goods****Ninety-first session**

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Item 4 of the provisional agenda

Work of the RID/ADR/ADN Joint Meeting

14 October 2011

Consolidated list of amendments adopted by the Joint Meeting and by the Working Party during the biennium**Note by the secretariat**

The secretariat reproduces hereafter the draft amendments to ADR adopted by the Joint Meeting at its March and September 2010 and March and September 2011 sessions and the amendments specific to ADR adopted by the Working Party during the biennium.

The amendments adopted by the Joint Meeting at its March and September 2010 sessions and corresponding to documents:

ECE/TRANS/WP.15/AC.1/118, annex III; and

ECE/TRANS/WP.15/AC.1/120, annex II;

have already been endorsed by the Working Party (see ECE/TRANS/WP.15/208 and ECE/TRANS/WP.15/210).

The amendments adopted by the Joint Meeting at its March and September 2011 sessions and corresponding to documents:

ECE/TRANS/WP.15/AC.1/122; and

ECE/TRANS/WP.15/AC.1/124/Add.1 and ECE/TRANS/WP.15/AC.1/2011/30/Add.1;

are presented for endorsement by the Working Party.

Text in blue corresponds to amendments presented for endorsement.

References:

ECE/TRANS/WP.15/206, ECE/TRANS/WP.15/208, ECE/TRANS/WP.15/210

ECE/TRANS/WP.15/AC.1/122

ECE/TRANS/WP.15/AC.1/124/Add.1 and ECE/TRANS/WP.15/AC.1/2011/30/Add.1

Part 1

Chapter 1.1

1.1.3.3 In the French text, amend the heading to read "Exemptions relatives au transport des combustibles liquides".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.1.3.3 Insert the following new sub-paragraph:

"(c) Liquid fuels of UN Nos. 1202, 1203, 1223, 1268, 1863 and 3475 above the quantity specified in Column (7a) of Table A of Chapter 3.2 in means of containment (other than those covered under (a) or (b) above) integral to equipment or machinery (e.g. generators, compressors, heating units, etc) as part of their original design type, provided they meet the following requirements:

- (i) The means of containment are in compliance with the construction requirements of the competent authority of the country of manufacture*;
- (ii) Any valves or openings (e.g. venting devices) in the means of containment containing dangerous goods are closed during carriage;
- (iii) The machinery or equipment ~~are~~ is loaded in an orientation to prevent inadvertent leakage of dangerous goods and secured by means capable of restraining the machinery or equipment to prevent any movement during carriage which would change the orientation or cause it to be damaged;
- (iv) Where the means of containment has a capacity of more than 60 litres but not more than 450 litres, the machinery or equipment is labelled on one external side in accordance with 5.2.2 and where the capacity is greater than 450 litres but not more than 1 500 litres the machinery or equipment is labelled on all four external sides in accordance with 5.2.2; and
- (v) Where the means of containment has a capacity greater than 1 500 litres, the machinery or equipment is placarded on all four external sides in accordance with 5.3.1.1.1, the requirement of 5.4.1 applies and the transport document includes the following additional statement: "carriage in accordance with 1.1.3.3 (c)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2 + editorial correction)

1.1.3.6.2 In the first indent, at the end, add "and except for Class 7 excepted packages of UN Nos. 2910 and 2911 if the activity level exceeds the A₂ value".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendments to amendment to 1.10.4)

* For example, compliance with the relevant provisions of Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (Official Journal of the European Union No. L 157 of 9 June 2006, pp. 0024-0086).

1.1.3.6.3 For transport category 1, in column (2), for Class 2, add the following new line at the end:

"chemicals under pressure: UN Nos. 3502, 3503, 3504 and 3505".

1.1.3.6.3 For transport category 2, in column (2), for Class 2, add the following new line at the end:

"chemicals under pressure: UN No. 3501".

1.1.3.6.3 For transport category 3, in column (2), for Class 2, add the following new line at the end:

"chemicals under pressure: UN No. 3500".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2)

1.1.3.6.3 For transport category 4, in column (2), for Class 9, replace "UN No. 3268" with "UN Nos. 3268 and 3499".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendment for capacitors after the new entries for Table A in Chapter 3.2)

Insert the following new sub-sections:

"1.1.3.8 *(Reserved)*

1.1.3.9 *Exemptions related to dangerous goods used as a coolant or conditioner during carriage*

Dangerous goods, that are only asphyxiant (which dilute or replace the oxygen normally in the atmosphere), when used in vehicles or containers for cooling or conditioning purposes are only subject to the provisions of section 5.5.3."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Insert a new section 1.1.5 to read as follows:

"1.1.5 *Application of standards*

Where the application of a standard is required and there is any conflict between the standard and the provisions of ADR, the provisions of ADR take precedence."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Chapter 1.2

1.2.1 In the Note in the definition for "Applicant", replace "an operator" with "a tank-container operator".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 The amendments to the definition for "Box" and for "Bag" do not apply to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 In the definition for "Bulk container", replace "'Bulk containers' means containment systems" with "'Bulk container' means a containment system". Replace "Bulk containers are" with "A bulk container is". In the second indent, replace "modes of carriage" with "means of transport".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 At the end of the definition for "*Bulk container*", add ", flexible bulk containers".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the NOTE to the definition for "*Cargo transport unit*", replace "of Chapter 5.5" with "of 5.5.2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the definition for "*Collective entry*", replace "well defined" with "defined".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 In the definition for "*Combination packaging*", replace "for transport purposes" with "for carriage purposes".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 In the definition of "*GHS*", replace "third" with "fourth" and "ST/SG/AC.10/30/Rev.3" with "ST/SG/AC.10/30/Rev.4".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the definition of "*Manual of Tests and Criteria*", amend the text in the parentheses to read "ST/SG/AC.10/11/Rev.5 as amended by document ST/SG/AC.10/11/Rev.5/Amend.1".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the definition of "*Maximum permissible gross mass*", in (a), amend the text in parentheses to read "for IBCs".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 Delete the definition of "*Maximum permissible load*".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the definition for "*Pressure receptacle*", replace "and bundles of cylinders" with ", bundles of cylinders and salvage pressure receptacles".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 In the definition for "*Salvage packaging*", replace "or leaking" with "leaking or non-conforming".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.2.1 In the definition of "*UN Model Regulations*", replace "sixteenth" with "seventeenth" and "(ST/SG/AC.10/1/Rev.16)" with "(ST/SG/AC.10/1/Rev.17)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

1.2.1 Add the following new definitions:

“*Liquefied Petroleum Gas (LPG)*’ means a low pressure liquefied gas composed of one or more light hydrocarbons which are assigned to UN Nos. 1011, 1075, 1965, 1969 or 1978 only and which consists mainly of propane, propene, butane, butane isomers, butene with traces of other hydrocarbon gases.

NOTE 1: *Flammable gases assigned to other UN numbers shall not be regarded as LPG.*

NOTE 2: *For UN No. 1075 see NOTE 2 in 2.2.2.3 under 2F/UN No. 1965.”*

(Reference document: ECE/TRANS/WP.15/210, annex II)

"*Net explosive mass (NEM)* means the total mass of the explosive substances, without the packagings, casings, etc. (*Net explosive quantity (NEQ)*, *net explosive contents (NEC)*, *net explosive weight (NEW)* or *net mass of explosive contents* are often used to convey the same meaning.);".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

"*Salvage pressure receptacle* means a pressure receptacle with a water capacity not exceeding 1 000 litres into which are placed damaged, defective, leaking or non-conforming pressure receptacle(s) for the purpose of carriage e.g. for recovery or disposal;".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

Chapter 1.4

1.4.2.1.1 (b) After "Furnish the carrier with information and data", insert "in a traceable form".

(Reference document: *ECE/TRANS/WP.15/208, Annex I*)

1.4.2.2.1 (d) Replace "the date of the next test" with "the deadline for the next test". In the Note, replace "the expiry of this date" with "the expiry of this deadline".

(Reference document: *ECE/TRANS/WP.15/208, Annex I*)

1.4.3.3 (f) Amend to read as follows:

"(f) He shall, after filling the tank, ensure that all closures are in a closed position and that there is no leakage;".

(Reference document: *ECE/TRANS/WP.15/208, Annex I*)

Chapter 1.6

1.6.1.7 Replace "4.1.1.19" with "4.1.1.21".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering*)

1.6.1 Add the following new transitional measures:

"1.6.1.24 Lithium cells and batteries manufactured before 1 January 2014 which had been tested in accordance with the requirements applicable until 31 December 2012 but which had not been tested in accordance with the requirements applicable as from 1 January 2013, and appliances containing such lithium cells or batteries, may continue to be carried if all the other applicable requirements are fulfilled."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendments to amendments to 2.2.9.1.7*)

"1.6.1.25 Packages marked with a UN number in accordance with the provisions of ADR applicable up to 31 December 2012 and which do not conform to the requirements of 5.2.1.1 regarding the size of the UN number and of the letters "UN" applicable as from 1 January 2013 may continue to be used until 31 December 2013, and, for cylinders of 60 litres water capacity or less, until the next periodic inspection but no later than 30 June 2018."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 5.2.1.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

"1.6.1.26 Large packagings manufactured or remanufactured before 1 January 2014 and which do not conform to the requirements of 6.6.3.1 regarding the height of letters, numerals and symbols applicable as from 1 January 2013 may continue to be used. Those manufactured or remanufactured before 1 January 2015 need not be marked with the maximum permitted stacking load in accordance with 6.6.3.3. Such large packagings not marked in accordance with 6.6.3.3 may still be used after 31 December 2014 but must be marked in accordance with 6.6.3.3 if they are remanufactured after that date."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.6.3.1 and 6.6.3.3)

"1.6.1.27 Means of containment integral to equipment or machinery containing liquid fuels of UN Nos. 1202, 1203, 1223, 1268, 1863 and 3475 constructed before 1 July 2013, which do not conform to the requirements of 1.1.3.3 (c) (i) applicable as from 1 January 2013, may still be used."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.6.2 Add a new transitional measure to read as follows:

"1.6.2.12 Salvage pressure receptacles may continue to be constructed and approved according to national regulations up to 31 December 2013. Salvage pressure receptacles constructed and approved in accordance with national regulations before 1 January 2014 may continue to be used with the approval of the competent authorities of the countries of use."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.2.3.11.2)

1.6.3 Add the following new transitional measures:

"1.6.3.41 Fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2013 in accordance with the requirements in force up to 31 December 2012, but which do not, however, meet the marking provisions of 6.8.2.5.2 or 6.8.3.5.6 applicable as from 1 January 2013, may continue to be marked in accordance with the requirements applicable up to 31 December 2012 until the next periodic inspection after 1 July 2013."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II + ECE/TRANS/WP.15/124/Add.1)

"1.6.3.42 For UN No. 2381, the tank code specified in column (12) of Table A of Chapter 3.2 applicable up to 31 December 2012 may continue to be applied until 31 December 2018 for fixed tanks (tank-vehicles) and demountable tanks constructed before 1 July 2013."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.6.4 Add the following new transitional measures:

"1.6.4.42 Tank-containers constructed before 1 July 2013 in accordance with the requirements in force up to 31 December 2012, but which do not, however, meet the marking provisions of 6.8.2.5.2 or 6.8.3.5.6 applicable as from 1 January 2013, may continue to be marked in accordance with the requirements applicable up to 31 December 2012 until the next periodic inspection after 1 July 2013."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

"1.6.4.43 Portable tanks and MEGCs manufactured before 1 January 2014 need not comply with the requirements of 6.7.2.13.1 (f), 6.7.3.9.1 (e), 6.7.4.8.1 (e) and 6.7.5.6.1 (d) concerning the marking of the pressure relief devices."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"1.6.4.44 For substances where TP38 or TP39 is assigned in column (11) of Table A of Chapter 3.2, the portable tank instruction prescribed in ADR applicable up to 31 December 2012 may continue to be applied until 31 December 2018."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 4.2.5.3 TP38 and TP39)

"1.6.4.45 For UN No. 2381, the tank code specified in column (12) of Table A of Chapter 3.2 applicable up to 31 December 2012 may continue to be applied until 31 December 2018 for tank-containers constructed before 1 July 2013."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

1.6.5 Add a new transitional measure 1.6.5.14 to read as follows:

"1.6.5.14 MEMUs which have been approved before 1 July 2013 in accordance with the provisions of ADR in force up to 31 December 2012, but which do not conform to the requirements of 6.12.3.2.1 or 6.12.3.2.2 applicable as from 1 January 2013, may still be used."

(Reference document: ECE/TRANS/WP.15/206)

Chapter 1.8

1.8.5.1 At the end, add "at the latest one month after the occurrence".

(Reference document: ECE/TRANS/WP.15/208, Annex I)

Add a new 1.8.7.2.5 to read as follows:

"1.8.7.2.5 In the case of a modification of a pressure receptacle, tank, battery-vehicle or MEGC with a valid, expired or withdrawn type approval, the testing, inspection and approval are limited to the parts of the pressure receptacle, tank, battery-vehicle or MEGC that have been modified. The modification shall meet the provisions of ADR applicable at the time of the modification. For all parts of the pressure receptacle, tank, battery-vehicle or MEGC not affected by the modification, the documentation of the initial type approval remains valid.

A modification may apply to one or more pressure receptacles, tanks, battery-vehicles or MEGCs covered by a type approval.

A certificate approving the modification shall be issued to the applicant by the competent authority of any Contracting Party to ADR or by a body designated by this authority. For tanks, battery-vehicles or MEGCs, a copy shall be kept as part of the tank record.

Each application for an approval certificate for a modification shall be lodged by the applicant with a single competent authority or body designated by this authority."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

Chapter 1.9

1.9.5.2.2 For tunnel category E, at the end, insert:

"and for all dangerous goods in accordance with the provisions of Chapter 3.4 if the quantities carried exceed 8 tonnes (total gross mass) per transport unit".

(Reference document: ECE/TRANS/WP.15/210, annex II)

1.9.5.3.6 Amend to read as follows:

"1.9.5.3.6 Tunnel restrictions shall apply to transport units for which an orange-coloured plate marking in accordance with 5.3.2 is required and, for tunnels of category E, they shall apply also to transport units for which a marking in accordance with 3.4.13 is required or carrying containers for which a marking in accordance with 3.4.13 is required.

Tunnel restrictions shall not apply when dangerous goods are carried in accordance with 1.1.3, except when vehicles carrying such goods are marked in accordance with 3.4.13 as defined in 3.4.14."

(Reference document: ECE/TRANS/WP.15/210, annex II)

Chapter 1.10

1.10.3.1 Amend to read as follows:

"1.10.3.1 *Definition of high consequence dangerous goods*

1.10.3.1.1 High consequence dangerous goods are those which have the potential for misuse in a terrorist event and which may, as a result, produce serious consequences such as mass casualties, mass destruction or, particularly for Class 7, mass socio-economic disruption.

1.10.3.1.2 High consequence dangerous goods in classes other than Class 7 are those listed in Table 1.10.3.1.2 below and carried in quantities greater than those indicated therein.

[Insert existing Table 1.10.5 renumbered 1.10.3.1.2, but without the entry for Class 7.]

1.10.3.1.3 For dangerous goods of Class 7, high consequence radioactive material is that with an activity equal to or greater than a transport security threshold of 3 000 A₂ per single package (see also 2.2.7.2.2.1) except for the following radionuclides where the transport security threshold is given in Table 1.10.3.1.3 below.

Table 1.10.3.1.3

Transport security thresholds for specific radionuclides

<i>Element</i>	<i>Radionuclide</i>	<i>Transport security threshold (TBq)</i>
Americium	Am-241	0.6
Gold	Au-198	2
Cadmium	Cd-109	200
Californium	Cf-252	0.2
Curium	Cm-244	0.5
Cobalt	Co-57	7
Cobalt	Co-60	0.3
Cesium	Cs-137	1
Iron	Fe-55	8000
Germanium	Ge-68	7
Gadolinium	Gd-153	10
Iridium	Ir-192	0.8

<i>Element</i>	<i>Radionuclide</i>	<i>Transport security threshold (TBq)</i>
Nickel	Ni-63	600
Paladium	Pd-103	900
Promethium	Pm-147	400
Polonium	Po-210	0.6
Plutonium	Pu-238	0.6
Plutonium	Pu-239	0.6
Radium	Ra-226	0.4
Ruthenium	Ru-106	3
Selenium	Se-75	2
Strontium	Sr-90	10
Thallium	Tl-204	200
Thulium	Tm-170	200
Yterbium	Yb-169	3

1.10.3.1.4 For mixtures of radionuclides, determination of whether or not the transport security threshold has been met or exceeded can be calculated by summing the ratios of activity present for each radionuclide divided by the transport security threshold for that radionuclide. If the sum of the fractions is less than 1, then the radioactivity threshold for the mixture has not been met nor exceeded.

This calculation can be made with the formula:

$$\sum_i \frac{A_i}{T_i} < 1$$

Where:

A_i = activity of radionuclide i that is present in a package (TBq)

T_i = transport security threshold for radionuclide i (TBq).

1.10.3.1.5 When radioactive material possess subsidiary risks of other classes, the criteria of table 1.10.3.1.2 shall also be taken into account (see also 1.7.5)

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

1.10.3.2.1 and 1.10.3.3 (twice) Replace "high consequence dangerous goods (see Table 1.10.5)" with "high consequence dangerous goods (see Table 1.10.3.1.2) or high consequence radioactive material (see 1.10.3.1.3)".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*, consequential amendments to amendments to 1.10.3.1)

1.10.4 After "and 0500" insert "and except for UN Nos. 2910 and 2911 if the activity level exceeds the A_2 value". Add the following new sentence at the end "In addition the provisions of this Chapter do not apply to the carriage of UN No. 2912 RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-I) and UN No. 2913 RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS (SCO-I)".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

1.10.5 Delete. Renumber 1.10.6 as 1.10.5.

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*, consequential amendments to amendments to 1.10.3.1)

1.10.6 (Renumbered 1.10.5) In footnote 2, delete the last sentence ("See also "Guidance and Considerations for the Implementation of INFCIRC/225/Rev.4, the Physical Protection of Nuclear Material and Nuclear Facilities, IAEA-TECDOC-967/Rev.1").

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendments to amendments to 1.10.3.1)

Part 2

Chapter 2.1

2.1.3.3 In the first sentence, add "meeting the classification criteria of ADR" after "A solution or mixture".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.1.3.5 Add "meeting the classification criteria of ADR and" after "solutions or mixtures".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.1.3.5.3 Amend the beginning (before the parenthesis) of subparagraph (h) to read as follows:

"(h) Substances of Class 6.1 meeting the inhalation toxicity criteria of Packing group I."

(Reference document: ECE/TRANS/WP.15/210, annex II)

2.1.3.5.5 At the end of the third paragraph, add the following sentence: "However, if it is known that the waste possesses only environmentally hazardous properties, it may be assigned to packing group III under UN Nos. 3077 or 3082."

(Reference document: ECE/TRANS/WP.15/208, Annex I)

2.1.3.8 Amend to read as follows:

"2.1.3.8 Substances of classes 1 to 6.2, 8 and 9, other than those assigned to UN Nos. 3077 and 3082, meeting the criteria of 2.2.9.1.10 are additionally to their hazards of classes 1 to 6.2, 8 and 9 considered to be environmentally hazardous substances. Other substances meeting the criteria of no other class, but those of 2.2.9.1.10 are to be assigned to UN Nos. 3077 and 3082 as appropriate. "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Chapter 2.2

2.2.1.1.3 Replace "2.2.1.1.8" with "2.2.1.4".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to renumbering of 2.2.1.1.8)

2.2.1.1.5 For Division 1.6, delete "detonating".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.1.1.6 In the description for compatibility group N, delete "detonating".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.1.1.8 Transfer the text of 2.2.1.1.8 in a new sub-section 2.2.1.4 with the following modifications:

In the definition for "ARTICLES, EXPLOSIVE, EXTREMELY INSENSITIVE (ARTICLES, EEI)", delete "detonating" and "(EIDS)".

Add a new definition for "CARTRIDGES FOR TOOLS, BLANK" to read as follows:

"CARTRIDGES FOR TOOLS, BLANK: UN No. 0014

Article, used in tools, consisting of a closed cartridge case with a centre or rim fire primer with or without a charge of smokeless or black powder but with no projectile."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

Add a new 2.2.1.1.8 to read as follows:

"2.2.1.1.8 *Exclusion from Class 1*

2.2.1.1.8.1 An article or a substance may be excluded from Class 1 by virtue of test results and the Class 1 definition with the approval of the competent authority of any ADR Contracting Party who may also recognize an approval granted by the competent authority of a country which is not a ADR Contracting Party 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.

2.2.1.1.8.2 With the approval of the competent authority in accordance with 2.2.1.1.8.1, an article may be excluded from Class 1 when three unpackaged articles, each individually activated by its own means of initiation or ignition or external means to function in the designed mode, meet the following test criteria:

(a) No external surface shall have a temperature of more than 65 °C. A momentary spike in temperature up to 200 °C is acceptable;

(b) No rupture or fragmentation of the external casing or movement of the article or detached parts thereof of more than one metre in any direction;

NOTE: Where the integrity of the article may be affected in the event of an external fire these criteria shall be examined by a fire test, such as described in ISO 12097-3.

(c) No audible report exceeding 135 dB(C) peak at a distance of one metre;

(d) No flash or flame capable of igniting a material such as a sheet of 80 ± 10 g/m² paper in contact with the article; and

(e) No production of smoke, fumes or dust in such quantities that the visibility in a one cubic metre chamber equipped with appropriately sized blow out panels is reduced more than 50% as measured by a calibrated light (lux) meter or radiometer located one metre from a constant light source located at the midpoint on opposite walls. The general guidance on Optical Density Testing in ISO 5659-1 and the general guidance on the Photometric System described in Section 7.5 in ISO 5659-2 may be used or similar optical density measurement methods designed to accomplish the same purpose may also be employed. A suitable hood cover surrounding the back and sides of the light meter shall be used to minimize effects of scattered or leaking light not emitted directly from the source.

NOTE 1: If during the tests addressing criteria (a), (b), (c) and (d) no or very little smoke is observed the test described in (e) may be waived.

NOTE 2: *The competent authority referred to in 2.2.1.1.8.1 may require testing in packaged form if it is determined that, as packaged for carriage, the article may pose a greater risk."*

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

2.2.2.1.2 Insert a new subdivision at the end to read as follows:

"8. Chemicals under pressure: liquids, pastes or powders, pressurized with a propellant that meets the definition of a compressed or liquefied gas and mixtures thereof."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2 + ECE/TRANS/WP.15/AC.1/124/Add.1)

2.2.2.1.3 At the beginning, replace "(except aerosols)" with "(except aerosols and chemicals under pressure)".

In NOTE 2, at the end, add the following new sentence "For chemicals under pressure (UN Nos. 3500 to 3505), see 2.2.2.1.7."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2)

2.2.2.1.5 At the beginning, replace "(except aerosols)" with "(except aerosols and chemicals under pressure)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2)

2.2.2.1.5 Under "Flammable gases", replace "ISO 10156:1996" with "ISO 10156:2010".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.2.1.5 Under "Oxidizing gases", replace "ISO 10156:1996 or ISO 10156-2:2005" with "ISO 10156:2010".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.2.1.6, first Note Replace "or of pyrophoric gases according to packing instruction P200" with "and gases identified as "Considered as pyrophoric" by table note c of Table 2 of packing instruction P200".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Add a new 2.2.2.1.7 to read as follows:

"2.2.2.1.7 *Chemicals under pressure*

Chemicals under pressure (UN Nos. 3500 to 3505) are assigned to one of the following groups according to their hazardous properties, as follows:

- A asphyxiant;
- F flammable;
- T toxic;
- C corrosive;
- FC flammable, corrosive;
- TF toxic, flammable.

The classification depends on the hazard characteristics of the components in the different states:

- The propellant;
- The liquid; or
- The solid.

NOTE 1: *Gases, which meet the definition of toxic gases or of oxidizing gases according to 2.2.2.1.5 or gases identified as "Considered as pyrophoric" by table note c of Table 2 of packing instruction P200 in 4.1.4.1, shall not be used as a propellant in chemicals under pressure.*

NOTE 2: *Chemicals under pressure with contents meeting the criteria for packing group I for toxicity or corrosivity or with contents meeting both the criteria for packing group II or III for toxicity and for packing group II or III for corrosivity shall not be accepted for carriage under these UN numbers.*

NOTE 3: *Chemicals under pressure with components meeting the properties of Class 1; liquid desensitized explosives of Class 3; self-reactive substances and solid desensitized explosives of Class 4.1; Class 4.2; Class 4.3; Class 5.1; Class 5.2; Class 6.2; or Class 7, shall not be used for carriage under these UN numbers.*

NOTE 4: *A chemical under pressure in an aerosol dispenser shall be carried under UN No. 1950.*

The following criteria shall apply:

(a) Assignment to group A shall apply when the contents do not meet the criteria for any other group according to sub-paragraphs (b) to (e) below;

(b) Assignment to group F shall apply if one of the components, which can be a pure substance or a mixture, needs to be classified as flammable. Flammable components are flammable liquids and liquid mixtures, flammable solids and solid mixtures or flammable gases and gas mixtures meeting the following criteria:

- (i) A flammable liquid is a liquid having a flashpoint of not more than 93 °C;
- (ii) A flammable solid is a solid which meets the criteria in 2.2.41.1 ;
- (iii) A flammable gas is a gas which meets the criteria in 2.2.2.1.5 ;

(c) Assignment to group T shall apply when the contents, other than the propellant, are classified as Class 6.1, packing groups II or III;

(d) Assignment to group C shall apply when the contents, other than the propellant, meet the criteria for Class 8, packing groups II or III;

(e) When the criteria for two groups amongst groups F, T, and C are met, assignment to groups FC or TF shall apply, as relevant."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2 + ECE/TRANS/WP.15/AC.1/124/Add.1)

2.2.2.3 Add the following new table at the end:

Chemicals under pressure		
Classification code	UN No.	Name of the substance or article
8A	3500	CHEMICAL UNDER PRESSURE, N.O.S.
8F	3501	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
8T	3502	CHEMICAL UNDER PRESSURE, TOXIC, N.O.S.
8C	3503	CHEMICAL UNDER PRESSURE, CORROSIVE, N.O.S.
8TF	3504	CHEMICAL UNDER PRESSURE, FLAMMABLE, TOXIC, N.O.S.
8FC	3505	CHEMICAL UNDER PRESSURE, FLAMMABLE, CORROSIVE, N.O.S.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2)

2.2.3.1.1, Note 1 At the beginning, delete ", non toxic and non corrosive, ".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

2.2.3.1.1, Note 2 Add "including synthetically manufactured products" after "heating oil (light)".

(Reference document: ECE/TRANS/WP.15/210, annex II)

2.2.3.1.2 Replace "F Flammable liquids, without subsidiary risk:" with "F Flammable liquids, without subsidiary risk and articles containing such substances:" and add the following new entry under this heading:

"F3 Articles containing flammable liquids".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.3.3 Amend "Flammable liquids" to read "Flammable liquids and articles containing such substances".

In the list of collective entries, for Flammable liquids without subsidiary risk F, insert a new entry to read:

articles	F3	3269 POLYESTER RESIN KIT 3473 FUEL CELL CARTRIDGES or 3473 FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT or 3473 FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT
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For F1, delete the entry for UN No. 3269 POLYESTER RESIN KIT.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.51.3 Replace "Oxidizing substances" with "Oxidizing substances and articles containing such substances".

2.2.52.4 In the table, amend the entries listed below as follows:

Organic peroxide		Column	Amendment
DIISOPROPYL PEROXYDICARBONATE	(last row)	Concentration	Replace " ≤ 28 " with " ≤ 32 "
DIISOPROPYL PEROXYDICARBONATE	(last row)	Diluent type A	Replace " ≥ 72 " with " ≥ 68 "
DI-(3,5,5-TRIMETHYLHEXANOYL)	(first row)	Concentration	Replace "> 38-82" with "> 52-82"

PEROXIDE (concentration > 38-82)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.52.4 Insert the following new entries:

<i>Organic peroxide</i>	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
([3R-(3R,5aS,6S,8aS,9R,10R,12S,12aR**)]-DECAHYDRO-10-METHOXY-3,6,9-TRIMETHYL-3,12-EPOXY-12H-PYRANO[4,3-j]-1,2-BENZODIOXEPIN)	≤ 100					OP7			3106	
3,6,9-TRIETHYL-3,6,9-TRIMETHYL-1,4,7-TRIPEROXONANE	≤ 17	≥ 18		≥ 65		OP8			3110	
DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE	> 38-52	≥ 48				OP8	+10	+15	3119	

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.62.1.5.3 Add the following new Note at the end:

"NOTE: Medical equipment which has been drained of free liquid is deemed to meet the requirements of this paragraph and is not subject to the provisions of ADR."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

Add a new paragraph 2.2.62.1.5.7 to read as follows:

"2.2.62.1.5.7 Except for:

- (a) Medical waste (UN No. 3291);
- (b) Medical devices or equipment contaminated with or containing infectious substances in Category A (UN No. 2814 or UN No. 2900); and
- (c) Medical devices or equipment contaminated with or containing other dangerous goods that meet the definition of another hazard class,

medical devices or equipment potentially contaminated with or containing infectious substances which are being carried for disinfection, cleaning, sterilization, repair, or equipment evaluation are not subject to provisions of ADR other than those of this paragraph if packed in packagings designed and constructed in such a way that, under normal conditions of carriage, they cannot break, be punctured or leak their contents. Packagings shall be designed to meet the construction requirements listed in 6.1.4 or 6.6.5.

These packagings shall meet the general packing requirements of 4.1.1.1 and 4.1.1.2 and be capable of retaining the medical devices and equipment when dropped from a height of 1.2 m.

The packagings shall be marked "USED MEDICAL DEVICE" or "USED MEDICAL EQUIPMENT". When using overpacks, these shall be marked in the same way, except when the inscription remains visible."

(Replaces the amendment to 2.2.62.1.5 in ECE/TRANS/WP.15/210)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.8.1.2 Replace "C1-C10 Corrosive substances without subsidiary risk:" with "C1-C11 Corrosive substances without subsidiary risk and articles containing such substances:" and transfer the entry for C11 under this heading.

Amend the heading for CT to read "Corrosive substances, toxic and articles containing such substances".

Under this heading, insert a new subdivision CT3 to read as follows:

"CT3 Articles".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendment for UN No. 3506 after the new entries for Table A in Chapter 3.2)

2.2.8.1.6 Add the following table at the end:

"Table 2.2.8.1.6

Table summarizing the criteria in 2.2.8.1.6

Packing Group	Exposure Time	Observation Period	Effect
I	≤ 3 min	≤ 60 min	Full thickness destruction of intact skin
II	> 3 min ≤ 1 h	≤ 14 d	Full thickness destruction of intact skin
III	> 1 h ≤ 4 h	≤ 14 d	Full thickness destruction of intact skin
III	-	-	Corrosion rate on either steel or aluminium surfaces exceeding 6.25 mm a year at a test temperature of 55 °C when tested on both materials

".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.8.3 Amend the headings of the tables as follows:

Replace "Corrosive substances without subsidiary risk" with "Corrosive substances without subsidiary risk and articles containing such substances".

Replace "Corrosive substances with subsidiary risk(s)" with "Corrosive substances with subsidiary risk(s) and articles containing such substances".

In the first table, for Articles, C11, insert the following new entries:

1774	FIRE EXTINGUISHER CHARGES, corrosive liquid
2028	BOMBS, SMOKE, NON-EXPLOSIVE with corrosive liquid, without initiating device
3477	FUEL CELL CARTRIDGES containing corrosive substances, or
3477	FUEL CELL CARTRIDGES CONTAINED IN EQUIPMENT, containing corrosive substances, or
3477	FUEL CELL CARTRIDGES PACKED WITH EQUIPMENT, containing corrosive substances

In the second table, for CT, insert a new entry to read:

articles _____ CT3 **3506 MERCURY CONTAINED IN MANUFACTURED ARTICLES**

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendment for UN No. 3506 after the new entries for Table A in Chapter 3.2)

2.2.9.1.7 Amend to read as follows:

"Lithium batteries

2.2.9.1.7 Cells and batteries, cells and batteries contained in equipment, or cells and batteries packed with equipment, containing lithium in any form shall be assigned to UN Nos. 3090, 3091, 3480 or 3481 as appropriate. They may be carried under these entries if they meet the following provisions:

(a) Each cell or battery is of the type proved to meet the requirements of each test of the *Manual of Tests and Criteria*, Part III, sub-section 38.3;

NOTE: *Batteries shall be of a design type proved to meet the testing requirements of the Manual of test and criteria, part III, sub-section 38.3, irrespective of whether the cells of which they are composed are of a tested design type.*

(b) Each cell and battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage;

(c) Each cell and battery is equipped with an effective means of preventing external short circuits;

(d) Each battery containing cells or series of cells connected in parallel is equipped with effective means as necessary to prevent dangerous reverse current flow (e.g., diodes, fuses, etc.);

(e) Cells and batteries shall be manufactured under a quality management programme that includes:

- (i) A description of the organizational structure and responsibilities of personnel with regard to design and product quality;
- (ii) The relevant inspection and test, quality control, quality assurance, and process operation instructions that will be used;
- (iii) Process controls that should include relevant activities to prevent and detect internal short circuit failure during manufacture of cells;
- (iv) Quality records, such as inspection reports, test data, calibration data and certificates. Test data shall be kept and made available to the competent authority upon request;
- (v) Management reviews to ensure the effective operation of the quality management programme;
- (vi) A process for control of documents and their revision;
- (vii) A means for control of cells or batteries that are not conforming to the type tested as mentioned in (a) above;
- (viii) Training programmes and qualification procedures for relevant personnel; and
- (ix) Procedures to ensure that there is no damage to the final product.

NOTE: *In house quality management programmes may be accepted. Third party certification is not required, but the procedures listed in (i) to (ix) above shall be properly recorded and traceable. A copy of the quality management programme shall be made available to the competent authority upon request.*

Lithium batteries are not subject to the provisions of ADR if they meet the requirements of special provision 188 of Chapter 3.3.

NOTE: *The entry UN 3171 Battery-powered vehicle or UN 3171 Battery-powered equipment only applies to vehicles powered by wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries and equipment powered by wet batteries or sodium batteries transported with these batteries installed.*

For the purpose of this UN number, vehicles are self-propelled apparatus designed to carry one or more persons or goods. Examples of such vehicles are electrically-powered cars, motorcycles, scooters, three- and four-wheeled vehicles or motorcycles, e-bikes, wheel-chairs, lawn tractors, boats and aircraft.

Examples of equipment are lawnmowers, cleaning machines or model boats and model aircraft. Equipment powered by lithium metal batteries or lithium ion batteries shall be consigned under the entries UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT or UN 3091 LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT or UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, as appropriate.

Hybrid electric vehicles powered by both an internal combustion engine and wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, transported with the battery(ies) installed shall be classified under the entries UN 3166 vehicle, flammable gas powered or UN 3166 vehicle, flammable liquid powered, as appropriate. Vehicles which contain a fuel cell shall be classified under the entries UN 3166 vehicle, fuel cell, flammable gas powered or UN 3166 vehicle, fuel cell, flammable liquid powered, as appropriate."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.9.1.14 Add the following new entry in the list before the Note:

"Electric double layer capacitors (with an energy storage capacity greater than 0.3 Wh)".

In the Note, after "3171 battery-powered equipment (wet battery)" insert "(see also the NOTE at the end of 2.2.9.1.7)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

2.2.9.1.14 In the Note, after "UN No. 1845 carbon dioxide, solid (dry ice)", insert a reference "18" to a footnote. The footnote reads as follows: "For UN No. 1845 carbon dioxide, solid (dry ice) used as a coolant, see 5.5.3".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 5.5.3)

2.2.9.3 For M11, add the following new entry at the end:

"3499 CAPACITOR, electric double layer (with an energy storage capacity greater than 0.3 Wh)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Part 3

Chapter 3.1

3.1.3.2 In the first sentence, add "meeting the classification criteria of ADR" after "A solution or mixture".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

3.1.3.3 Add "meeting the classification criteria of ADR" after "A solution or mixture".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Chapter 3.2

3.2.1, Table A

For UN Nos. 0012, 0014 and 0055, insert "364" in column (6) and replace "0" with "5 kg" in column (7a).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 0014, in column (2), after "CARTRIDGES, SMALL ARMS, BLANK", insert "or CARTRIDGES FOR TOOLS, BLANK".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 0144, insert "358" and delete "500" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN Nos. 1006 and 1046, in column (6), add "653".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

For UN Nos. 1008, 1017, 1048, 1050, 1053 and 1079, add "TT10" in column (13).

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

For UN Nos. 1011, 1049, 1075, 1954, 1965, 1969, 1971 and 1978, insert "660" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

For UN Nos. 1011, 1969 and 1978, insert "657" in column (6).

(Reference document: ECE/TRANS/WP.15/210, annex II)

For UN No. 1057, in column (6), insert "658".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

For UN Nos. 1072, 1956 and 3156, insert "655" in column (6).

(Reference document: ECE/TRANS/WP.15/208, Annex I)

For UN No. 1081, in column (12), insert: "PxBN(M)".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

For UN No. 1081, in column (13), insert: "TU40 TA4 TT9".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

For UN Nos. 1162, 1196, 1250, 1298, 1305, 1724, 1728, 1747, 1753, 1762, 1763, 1766, 1767, 1769, 1771, 1781, 1784, 1799, 1800, 1801, 1804, 1816, 1818, 2434, 2435, 2437, 2985, 2986, 2987, 3361 and 3362, amend the code in column (7b) to read "E0".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Delete the entries for Packing Group I for UN Nos. 1169, 1197, 1266, 1286 and 1287.

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

For all entries of UN Nos. 1202, 1203, 1223, 1268, 1863 and 3475, insert "363" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN Nos. 1334, 1350, 1454, 1474, 1486, 1498, 1499, 1942, 2067, 2213, 3077, 3377 and 3378, entries of Packing Group III, insert "BK3" in column (10).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 1402, PG I, in column (12), insert: "S2.65AN(+)".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

For UN No. 1402, PG I, in column (13), insert: "TU4 TU22 TM2 TA5".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

For UN No. 1792:

 Add ", SOLID" at the end of the name in column (2).

 In column (3b), replace "C1" with "C2".

 In column (7a), replace "1 L" with "1 kg"

 In column (8), replace "P001 IBC02" with "P002 IBC08".

 In column (9a), add "B4"

 In column (9b), replace "MP15" with "MP10".

 In column (12), insert SGAN.

 In column (16), add "V11".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

For UN No. 1845, after "NOT SUBJECT TO ADR" add "- When used as a coolant, see 5.5.3".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 5.5.3)

For UN No. 1950, replace "P003" with "P207" in column (8) and delete "PP17" in column (9a) (twelve times).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN Nos. 2208 and 3486, add "L3" against "LP02" in column (9a).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 2381:

 Insert "+6.1" in column (5). Replace "T4" with "T7" in column (10) and replace "TP1" with "TP2 TP39" in column (11).

 Amend the classification code in column (3b) to read "FT1".

 In column (8), delete "R001"

 In column (12), replace "LGBF" with "L4BH" and in column (13), add "TU15".

 In column (18), add "CV13 CV28".

 In column (19), replace "S20" with "S22".

In column (20), amend the code to read "336".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

For UN No. 2590: In column (7a), replace "0" with "5 kg".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 2809:

Insert "+6.1" in column (5) and "365" in column (6). Delete "599" in column (6).

Amend the classification code in column (3b) to read "CT1".

In column (18), add "CV13 CV28".

In column (20), amend the code to read "86".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 3064, insert "359" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN Nos. 3090, 3091, 3480 and 3481, delete "656" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to Chapter 3.3, SP188)

For UN Nos. 3091 and 3481, insert "360" in column (6).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 3129, Packing Group II, and UN No. 3148, Packing Group II, insert "TP7" in column (11).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 3129, Packing Group III, and UN No. 3148, Packing Group III, replace "TP1" with "TP2 TP7" in column (11).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 3148, Packing Group I, replace "T9" with "T13" in column (10) and insert "TP38" in column (11).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

For UN No. 3171, after "NOT SUBJECT TO ADR" insert ", see also special provision 240 in Chapter 3.3."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2, consequential amendment to Chapter 3.3, SP240)

For UN Nos. 3175 and 3243, insert "601" in column (6).

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

Replace the row for the entry UN 3256 with the following two rows:

(1)	(2)	(6)
3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flashpoint above 60° C, at or above its flashpoint and below 100° C	274
		560

3256	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flashpoint above 60° C, at or above its flashpoint and at or above 100° C	274 560 580
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The indications in columns (3a), (3b), (4), (5) and (7a) to (20) remain identical and unchanged for both cases.

(Reference document: *ECE/TRANS/WP.15/208, Annex I*)

For UN Nos. 3269 (twice) and 3473, in column (3b) replace "F1" with "F3".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 2.2.3.3*)

For UN Nos. 3381 to 3390 and 3488 to 3491, replace "with an inhalation toxicity" with "with an LC₅₀" in column (2) and amend the list of collective entries in 2.2.61.3 accordingly.

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

Delete the entries for UN Nos. 3492 and 3493 and amend the list of collective entries in 2.2.61.3 accordingly.

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

For the following entries, amend the name and description in column (2) as indicated below and amend the list of collective entries in 2.2.61.3 accordingly:

UN No.	Name and description
3276	NITRILES, LIQUID, TOXIC, N.O.S.
3278	ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S.
3282	ORGANOMETALLIC COMPOUND, LIQUID, TOXIC, N.O.S.
3439	NITRILES, SOLID, TOXIC, N.O.S.
3464	ORGANOPHOSPHORUS COMPOUND, SOLID, TOXIC, N.O.S.
3467	ORGANOMETALLIC COMPOUND, SOLID, TOXIC, N.O.S.

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

Add the following new entries and amend the list of collective entries 2.2.xy.3 accordingly:

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1* +
ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9a)	(9b)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3497	KRILL MEAL	4.2	S2	II	4.2	300	0	E2	P410 IBC06		MP14	T3	TP33	SGAN	-	AT	2 (D/E)	W1/ V1	-	-	-	40
3497	KRILL MEAL	4.2	S2	III	4.2	300	0	E1	P002 IBC08 LP02 R001	B3	MP14	T1	TP33	SGAV	-	AT	3 (E)	W1/ V1	VW4/ VV4	-		40
3498	IODINE MONOCHLORIDE, LIQUID	8	C1	II	8	-	1 L	E2	P001 IBC02	-	MP15	T7	TP2	L4BN	-	AT	2 (E)	-	-	-		80
3499	CAPACITOR, electric double layer (with an energy storage capacity greater than 0.3 Wh)	9	M11	-	9	361	0	E0	P003	-	-	-	-	-	-	-	4 (E)	-	-	-		RID: 90
3500	CHEMICAL UNDER PRESSURE, N.O.S.	2	8A	-	2.2	274 659	0	E0	P206	-	MP9	T50	TP4 TP40			AT	3 (C/E)	-	-	CV9 CV10 CV12 CV36		20
3501	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.	2	8F	-	2.1	274 659	0	E0	P206	PP89	MP9	T50	TP4 TP40			FL	2 (B/D)	-	-	CV9 CV10 CV12 CV36	S2	23
3502	CHEMICAL UNDER PRESSURE, TOXIC, N.O.S.	2	8T	-	2.2 +6.1	274 659	0	E0	P206	PP89	MP9	T50	TP4 TP40			AT	1 (C/D)	-	-	CV9 CV10 CV12 CV28 CV36		26
3503	CHEMICAL UNDER PRESSURE, CORROSIVE, N.O.S.	2	8C	-	2.2 +8	274 659	0	E0	P206	PP89	MP9	T50	TP4 TP40			AT	1 (C/D)	-	-	CV9 CV10 CV12 CV36		28

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9a)	(9b)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
3504	CHEMICAL UNDER PRESSURE, FLAMMABLE, TOXIC, N.O.S.	2	8TF	-	2.1 +6.1	274 659	0	E0	P206	PP89	MP9	T50	TP4 TP40			FL	1 (B/D)	-	-	CV9 CV10 CV12 CV28 CV36	S2	263
3505	CHEMICAL UNDER PRESSURE, FLAMMABLE, CORROSIVE, N.O.S.	2	8FC	-	2.1 +8	274 659	0	E0	P206	PP89	MP9	T50	TP4 TP40			FL	1 (B/D)	-	-	CV9 CV10 CV12 CV36	S2	238
3506	MERCURY CONTAINED IN MANUFACTURED ARTICLES	8	CT3	III	8 +6.1	366	5 kg	E0	P003	PP90	MP15	-	-	-	-	-	3 (E)	-	-	CV13 CV28		

Chapter 3.3

3.3.1

SP188 (b) At the end, add ", except those manufactured before 1 January 2009".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP188 (c) Amend to read as follows:

"(c) Each cell or battery meets the provisions of 2.2.9.1.7 (a) and (e);".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP188 (e) Insert the following new second sentence: "This requirement does not apply to devices which are intentionally active in carriage (radio frequency identification (RFID) transmitters, watches, sensors, etc.) and which are not capable of generating a dangerous evolution of heat."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1* +
ECE/TRANS/WP.15/AC.1/124/Add.1)

SP230 Amend to read as follows:

"230 Lithium cells and batteries may be carried under this entry if they meet the provisions of 2.2.9.1.7."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP239 In the first sentence, replace, "sodium, sulphur and/or polysulphides" with "sodium, sulphur or sodium compounds (e.g. sodium polysulphides and sodium tetrachloroaluminate)".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP272 In the text in parentheses, at the end, add "or UN No. 0150 as appropriate".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP280 Replace "pressure vessel" with "pressure receptacle".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP289 Replace "installed in conveyances or in completed conveyance components" with "installed in vehicles, wagons, vessels or aircraft or in completed components".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP296 (c) Insert "or liquefied" after "compressed".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP296 Add the following new paragraph at the end:

"Life-saving appliances packed in strong rigid outer packagings with a total maximum gross mass of 40 kg, containing no dangerous goods other than compressed or liquefied gases of Class 2, group A or group O, in receptacles with a capacity not exceeding 120 ml, installed solely for the purpose of the activation of the appliance, are not subject to the requirements of ADR."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

SP300 Replace "Fish meal or fish scrap" with "Fish meal, fish scrap and krill meal".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

SP327 In the third sentence, replace "P003" with "P207".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

SP328 Add the following new paragraph at the end:

"When lithium metal or lithium ion batteries are contained in the fuel cell system, the consignment shall be consigned under this entry and under the appropriate entries for UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT or UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

SP338 Amend paragraph (b) to read as follows:

"(b) Not contain more than 200 ml liquefied flammable gas, the vapour pressure of which shall not exceed 1 000 kPa at 55 °C; and".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

SP356 Amend the first sentence to read as follows: "Metal hydride storage systems installed in vehicles, wagons, vessels or aircraft or in completed components or intended to be installed in vehicles, wagons, vessels or aircraft shall be approved by the competent authority of the country of manufacture¹ before acceptance for carriage."

The text of footnote 1 is unchanged.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Replace "358-499 (*Reserved*)" with "367-499 (*Reserved*)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

SP500 Amend to read "500 (*Deleted*)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to Chapter 3.3, SP358)

SP599 Amend to read "599 (*Deleted*)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to Chapter 3.3, SP366)

SP 560 Amend to read as follows:

"**560** An elevated temperature liquid, n.o.s. at or above 100 °C (including molten metals and molten salts) and, for a substance having a flashpoint, at a temperature below its flashpoint, is a substance of Class 9 (UN 3257)."

(Reference document: ECE/TRANS/WP.15/208, Annex I)

SP 584 Replace the two first indents with the following new indent:

“– it contains not more than 0.5% air in the gaseous state;”

(Reference document: ECE/TRANS/WP.15/208, Annex I)

SP 593 At the end add "except as specified in 5.5.3".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 5.5.3)

SP 636 (b) Amend the introductory sentence to read as follows:

"Up to the intermediate processing facility, used lithium cells and batteries with a gross mass of not more than 500 g each, whether or not contained in equipment, collected and handed over for carriage for disposal, together or without other non-lithium cells or batteries, are not subject to the other provisions of ADR if they meet the following conditions:".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

SP 653 Amend the first sentence to read as follows:

"653 The carriage of this gas in cylinders having a test pressure capacity product of maximum 15.2 MPa.litre (152 bar.litre) is not subject to the other provisions of ADR if the following conditions are met: "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

SP 653 Amend the beginning of the fifth indent to read as follows:

"Each package is clearly and durably marked with "UN 1006" for argon compressed, "UN 1013" for carbon dioxide, "UN 1046" for helium compressed or "UN 1066" for nitrogen, compressed..."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

SP 656 Amend to read "656 (Deleted)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to Chapter 3.3, SP 188)

3.3.1

Add the following new special provisions:

"**123** *(Reserved)*".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"**240** See the last NOTE in 2.2.9.1.7.".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

"**358** Nitroglycerin solution in alcohol with more than 1% but not more than 5% nitroglycerin may be classified in Class 3 and assigned to UN 3064 provided all the requirements of packing instruction P300 of 4.1.4.1 are complied with.".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"**359** Nitroglycerin solution in alcohol with more than 1% but not more than 5% nitroglycerin shall be classified in Class 1 and assigned to UN 0144 if not all the requirements of packing instruction P300 of 4.1.4.1 are complied with.".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"**360** Vehicles only powered by lithium metal batteries or lithium ion batteries shall be classified under the entry UN 3171 battery-powered vehicle.".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"**361** This entry applies to electric double layer capacitors with an energy storage capacity greater than 0.3 Wh. Capacitors with an energy storage capacity of 0.3 Wh or less are not subject to ADR. Energy storage capacity means the energy held by a capacitor, as calculated using the nominal voltage and capacitance. All capacitors to which this entry

applies, including capacitors containing an electrolyte that does not meet the classification criteria of any class of dangerous goods, shall meet the following conditions:

(a) Capacitors not installed in equipment shall be carried in an uncharged state. Capacitors installed in equipment shall be carried either in an uncharged state or protected against short circuit;

(b) Each capacitor shall be protected against a potential short circuit hazard in carriage as follows:

- (i) When a capacitor's energy storage capacity is less than or equal to 10Wh or when the energy storage capacity of each capacitor in a module is less than or equal to 10 Wh , the capacitor or module shall be protected against short circuit or be fitted with a metal strap connecting the terminals; and
- (ii) When the energy storage capacity of a capacitor or a capacitor in a module is more than 10 Wh, the capacitor or module shall be fitted with a metal strap connecting the terminals;

(c) Capacitors containing dangerous goods shall be designed to withstand a 95 kPa pressure differential;

(d) Capacitors shall be designed and constructed to safely relieve pressure that may build up in use, through a vent or a weak point in the capacitor casing. Any liquid which is released upon venting shall be contained by the packaging or by the equipment in which a capacitor is installed; and

(e) Capacitors shall be marked with the energy storage capacity in Wh.

Capacitors containing an electrolyte not meeting the classification criteria of any class of dangerous goods, including when installed in equipment, are not subject to other provisions of ADR.

Capacitors containing an electrolyte meeting the classification criteria of any class of dangerous goods, with an energy storage capacity of 10 Wh or less are not subject to other provisions of ADR when they are capable of withstanding a 1.2 metre drop test unpackaged on an unyielding surface without loss of contents.

Capacitors containing an electrolyte meeting the classification criteria of any class of dangerous goods that are not installed in equipment and with an energy storage capacity of more than 10 Wh are subject to ADR.

Capacitors installed in equipment and containing an electrolyte meeting the classification criteria of any class of dangerous goods, are not subject to other provisions of ADR provided the equipment is packaged in a strong outer packaging constructed of suitable material and of adequate strength and design, in relation to the packaging's intended use and in such a manner as to prevent accidental functioning of capacitors during carriage. Large robust equipment containing capacitors may be offered for carriage unpackaged or on pallets when capacitors are afforded equivalent protection by the equipment in which they are contained.

NOTE: Capacitors which by design maintain a terminal voltage (e.g. asymmetrical capacitors) do not belong to this entry."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"**362** (Reserved)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"363 See 1.1.3.3 (c)."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"364 This article may only be carried under the provisions of Chapter 3.4 if, as presented for carriage, the package is capable of passing the test in accordance with Test Series 6(d) of Part I of the *Manual of Tests and Criteria* as determined by the competent authority."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"365 For manufactured instruments and articles containing mercury, see UN 3506."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"366 Manufactured instruments and articles containing not more than 1 kg of mercury are not subject to ADR."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"657 This entry shall be used for the technically pure substance only; for mixtures of LPG components, see UN No. 1965 or see UN No. 1075 in conjunction with NOTE 2 in 2.2.2.3."

(Reference document: ECE/TRANS/WP.15/210, annex II)

"658 UN No. 1057 LIGHTERS complying with standard EN ISO 9994:2006 + A1:2008 "Lighters – Safety Specification" and UN No. 1057 LIGHTER REFILLS, may be carried subject only to the provisions of 3.4.1 (a) to (h), 3.4.2 (except for the total gross mass of 30 kg), 3.4.3 (except for the total gross mass of 20 kg), 3.4.11 and 3.4.12, provided the following conditions are met:

- (a) The total gross mass of each package is not more than 10 kg;
- (b) Not more than 100 kg gross mass of such packages is carried in a vehicle; and
- (c) Each outer packaging is clearly and durably marked with "UN 1057 LIGHTERS" or "UN 1057 LIGHTER REFILLS", as appropriate."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

"659 Substances to which PP86 or TP7 are assigned in Column (9a) and Column (11) of Table A in Chapter 3.2 and therefore require air to be eliminated from the vapour space, shall not be used for carriage under this UN number but shall be carried under their respective UN numbers as listed in Table A of Chapter 3.2.

NOTE: See also 2.2.2.1.7."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"660 For the carriage of fuel gas containment systems designed to be fitted in motor vehicles containing this gas the provisions of sub-section 4.1.4.1, Chapter 5.2, Chapter 5.4 and Chapter 6.2 of ADR need not be applied, provided the following conditions are met:

(a) The fuel gas containment systems meet the requirements of ECE Regulation No. 67 Revision 2 as amended⁴, ECE Regulation No. 110 Revision 1 as amended⁵ or ECE Regulation No. 115 as amended⁶ or Regulation No. 79/2009⁷ in combination with Regulation No. 406/2010⁸, as applicable.

(b) The fuel gas containment systems shall be leakproof and shall not exhibit any signs of external damage which may affect their safety.

NOTE 1: Criteria may be found in standard ISO 11623:2002 Transportable gas cylinders – Periodic inspection and testing of composite gas cylinders (or ISO DIS 19078 Gas cylinders - Inspection of the cylinder installation, and requalification of high pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles).

NOTE 2: If the fuel gas containment systems are not leakproof or overfilled or if they exhibit damage that could affect their safety, they shall only be carried in salvage pressure receptacles in conformity with ADR.

(c) If the fuel gas containment system is equipped with two valves or more integrated in line, two valves shall be so closed as to be gastight under normal conditions of carriage. If only one valve exists or only one valve works properly all openings with the exception of the opening of the pressure relief device shall be so closed as to be gastight under normal conditions of carriage.

(d) Fuel gas containment systems shall be carried in such a way as to prevent obstruction of the pressure relief device or any damage to the valves and any other pressurised part of the fuel gas containment systems and unintentional release of the gas under normal conditions of carriage. The fuel gas containment system shall be secured so as to prevent slipping, rolling or vertical movement.

(e) Fuel gas containment systems shall satisfy the provisions of 4.1.6.8 (a), (b), (c), (d) or (e).

(f) The marking and labelling provisions of Chapter 5.2 shall be met, unless fuel gas containment systems are consigned in a handling device. If so, the markings and danger labels shall be affixed to the handling device.

(g) Documentation

Every consignment that is carried in accordance with this special provision shall be accompanied by a transport document, containing at least the following information:

- (i) the UN number of the gas contained in the fuel gas containment systems, preceded by the letters “UN”;

⁴ ECE Regulation No. 67 (Uniform provisions concerning: I. Approval of specific equipment of motor vehicles using liquefied petroleum gases in their propulsion system; II. Approval of a vehicle fitted with specific equipment for the use of liquefied petroleum gases in its propulsion system with regard to the installation of such equipment).

⁵ ECE Regulation No. 110 (Uniform provisions concerning: I. Specific components of motor vehicles using compressed natural gas (CNG) 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) in their propulsion system).

⁶ ECE Regulation No. 115 (Uniform provisions concerning the approval of: I. Specific LPG (liquefied petroleum gases) retrofit systems to be installed in motor vehicles for the use of LPG in their propulsion system; II. Specific CNG (compressed natural gas) retrofit systems to be installed in motor vehicles for the use of CNG in their propulsion system).

⁷ Regulation (EC) No 79/2009 of the European Parliament and of the Council of 14 January 2009 on type-approval of hydrogen-powered motor vehicles, and amending Directive 2007/46/EC.

⁸ Commission Regulation (EU) No 406/2010 of 26 April 2010 implementing Regulation (EC) No 79/2009 of the European Parliament and of the Council on type-approval of hydrogen-powered motor vehicles.

- (ii) the proper shipping name of the gas;
- (iii) the label model number;
- (iv) the number of fuel gas containment systems;
- (v) in the case of liquefied gases the net mass in kg of the gas of each fuel gas containment system and in the case of compressed gases the nominal capacity in litres of each fuel gas containment system followed by the nominal working pressure;
- (vi) the names and the addresses of the consignor and the consignee.

(i) to (v) shall appear according to one of the following examples:

Example 1: UN 1971 natural gas, compressed, 2.1, 1 fuel gas containment system of 50 l in total, 200 bar

Example 2: UN 1965 hydrocarbon gas mixture, liquefied, n.o.s., 2.1, 3 fuel gas containment systems, each of 15 kg net mass of gas

NOTE: All other provisions of ADR shall be applied. "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Chapter 3.4

3.4.1 (g) Before "7.5.7" insert "7.5.2.4, "

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1/Add.2)

3.4.1 (h) At the end, insert: "and 8.6.4."

(Reference document: ECE/TRANS/WP.15/210, annex II)

3.4.2 Amend to read as follows:

"3.4.2 Dangerous goods shall be packed only in inner packagings placed in suitable outer packagings. Intermediate packagings may be used. In addition, for articles of Division 1.4, Compatibility Group S, the provisions of section 4.1.5 shall be fully complied with. The use of inner packagings is not necessary for the carriage of articles such as aerosols or "receptacles, small, containing gas". The total gross mass of the package shall not exceed 30 kg."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

3.4.3 Add the following text at the beginning: "Except for articles of Division 1.4, Compatibility Group S..."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

3.4.13 (a) Amend to read as follows:

"(a) Transport units with a maximum mass exceeding 12 tonnes carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.15 at the front and at the rear except when the transport unit contains other dangerous goods for which orange-coloured plate marking in accordance with 5.3.2 is required. In this latter case, the transport unit may display the required orange-coloured plate marking only, or both the orange-coloured plate marking in accordance with 5.3.2 and the marking in accordance with 3.4.15. "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

3.4.13 (b) Amend to read as follows:

"(b) Containers carrying dangerous goods in limited quantities, on transport units with a maximum mass exceeding 12 tonnes, shall be marked in accordance with 3.4.15 on all four sides except when the container contains other dangerous goods for which placarding in accordance with 5.3.1 is required. In this latter case, the container may display the required placards only, or both the placards in accordance with 5.3.1 and the marking in accordance with 3.4.15."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Chapter 3.5

3.5.1 Insert a new sub-section 3.5.1.4 to read as follows:

"3.5.1.4 Excepted quantities of dangerous goods assigned to codes E1, E2, E4 and E5 with a maximum net quantity of dangerous goods per inner packaging limited to 1 ml for liquids and gases and 1 g for solids and a maximum net quantity of dangerous goods per outer packaging which does not exceed 100 g for solids or 100 ml for liquids and gases are only subject to:

(a) The provisions of 3.5.2, except that an intermediate packaging is not required if the inner packagings are securely packed in an outer packaging with cushioning material in such a way that, under normal conditions of carriage, they cannot break, be punctured, or leak their contents; and for liquid dangerous goods, the outer packaging contains sufficient absorbent material to absorb the entire contents of the inner packagings; and

(b) The provisions of 3.5.3."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Part 4

Chapter 4.1

4.1.1.2 In the Note, replace "4.1.1.19" with "4.1.1.21".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering)

Insert a new 4.1.1.16 to read as follows and renumber following sub-sections accordingly:

"4.1.1.16 Where ice is used as a coolant it shall not affect the integrity of the packaging."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

The sub-section on chemical compatibility 4.1.1.19 is renumbered 4.1.1.21. Figures 4.1.1.19.1 and 4.1.1.19.2 are renumbered 4.1.1.21.1 and 4.1.1.21.2. Table 4.1.1.19.6 is renumbered 4.1.1.21.6.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20)

4.1.1.19.6 (Renumbered 4.1.1.21.6) In table 4.1.1.19.6 (renumbered 4.1.1.21.6), for UN Nos. 1169, 1197, 1266, 1286 and 1287, in column "Packing group", replace "I/II/III" with "II/III".

(ECE/TRANS/WP.15/AC.1/124/Add.1)

Insert a new sub-section 4.1.1.20 to read as follows:

"4.1.1.20 Use of salvage pressure receptacles

4.1.1.20.1 In the case of damaged, defective, leaking or non-conforming pressure receptacles, salvage pressure receptacles according to 6.2.3.11 may be used.

NOTE: A salvage pressure receptacle may be used as an overpack in accordance with 5.1.2. When used as an overpack, markings shall be in accordance with 5.1.2.1 instead of 5.2.1.3.

4.1.1.20.2 Pressure receptacles shall be placed in salvage pressure receptacles of suitable size. More than one pressure receptacle may be placed in the same salvage pressure receptacle only if the contents are known and do not react dangerously with each other (see 4.1.1.6). Appropriate measures shall be taken to prevent movement of the pressure receptacles within the salvage pressure receptacle e.g. by partitioning, securing or cushioning.

4.1.1.20.3 A pressure receptacle may only be placed in a salvage pressure receptacle if:

(a) The salvage pressure receptacle is in accordance with 6.2.3.11 and a copy of the approval certificate is available;

(b) Parts of the salvage pressure receptacle which are, or are likely to be in direct contact with the dangerous goods will not be affected or weakened by those dangerous goods and will not cause a dangerous effect (e.g. catalyzing reaction or reacting with the dangerous goods); and

(c) The contents of the contained pressure receptacle(s) is limited in pressure and volume so that if totally discharged into the salvage pressure receptacle, the pressure in the salvage pressure receptacle at 65 °C will not exceed the test pressure of the salvage pressure receptacle (for gases, see packing instruction in P200 (3) in 4.1.4.1). The reduction of the useable water capacity of the salvage pressure receptacle, e.g. by any contained equipment and cushioning, shall be taken into account.

4.1.1.20.4 The proper shipping name, the UN Number preceded by the letters "UN" and label(s) as required for packages in Chapter 5.2 applicable to the dangerous goods inside the contained pressure receptacle(s) shall be applied to the salvage pressure receptacle for carriage.

4.1.1.20.5 Salvage pressure receptacles shall be cleaned, purged and visually inspected internally and externally after each use. They shall be periodically inspected and tested in accordance with 6.2.3.5 at least once every five years."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

4.1.3.6.1 Replace "and bundles of cylinders" with ", bundles of cylinders and salvage pressure receptacles".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.4.1

P001 For "Combination packagings", under "Outer packagings", amend the entries for "Drums" to read as follows (the values for Maximum capacity/Net mass remain unchanged):

steel (1A1, 1A2)

aluminium (1B1, 1B2) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) fibre (1G)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P001 For "Combination packagings", under "Outer packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	250 kg	400 kg	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P001 For "Combination packagings", under "Outer packagings", amend the entries for "Jerricans" to read as follows (the values for Maximum capacity/Net mass remain unchanged):

steel (3A1, 3A2) aluminium (3B1, 3B2) plastics (3H1, 3H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P002 For "Combination packagings", under "Outer packagings", amend the entries for "Drums" to read as follows (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) fibre (1G)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P002 For "Combination packagings", "Outer packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	400 kg	400 kg	400 kg
------------------	--------	--------	--------

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P002 For "Combination packagings", under "Outer packagings", amend the entries for "Jerricans" to read as follows (the values for Maximum net mass remain unchanged):

steel (3A1, 3A2) aluminium (3B1, 3B2) plastics (3H1, 3H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P002 For "Single packagings", "Boxes", after "aluminium (4B)^c", insert the following row:

other metal (4N) ^c	Not allowed	400 kg	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P003 In special packing provision PP17, replace "UN Nos. 1950 and" with "UN No.". Delete special packing provision PP87. In special packing provision RR6 specific to RID and ADR, replace "UN 1950 and" with "UN No.".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P003 Insert the following new special packing provision PP90:

"PP90 For UN No. 3506, sealed inner liners or bags of strong leak-proof and puncture resistant material impervious to mercury which will prevent escape of the substance from the package irrespective of the position of the package shall be used. "

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P004 Amend to read as follows:

P004	PACKING INSTRUCTION	P004
This instruction applies to UN Nos. 3473, 3476, 3477, 3478 and 3479.		
The following packagings are authorized:		
(1)	For fuel cell cartridges, provided that the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.3, 4.1.1.6 and 4.1.3 are met: Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans (3A2, 3B2, 3H2). Packagings shall conform to the packing group II performance level.	
(2)	For fuel cell cartridges packed with equipment: strong outer packagings which meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.6 and 4.1.3 . When fuel cell cartridges are packed with equipment, they shall be packed in inner packagings or placed in the outer packaging with cushioning material or divider(s) so that the fuel cell cartridges are protected against damage that may be caused by the movement or placement of the contents within the outer packaging. The equipment shall be secured against movement within the outer packaging. For the purpose of this packing instruction, "equipment" means apparatus requiring the fuel cell cartridges with which it is packed for its operation.	
(3)	For fuel cell cartridges contained in equipment: strong outer packagings which meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.6 and 4.1.3 . Large robust equipment (see 4.1.3.8) containing fuel cell cartridges may be carried unpackaged. For fuel cell cartridges contained in equipment, the entire system shall be protected against short circuit and inadvertent operation.	

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P010 For "Combination packagings", under "Outer packagings":

- Under "Drums", for "steel", insert "1A1," before "1A2";
- Under "Drums", for "plastics", insert "1H1," before "1H2";

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P010 At the end, add the following new row:

Steel pressure receptacles , provided that the general provisions of 4.1.3.6 are met.
--

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P110(b), P111, P112(a), P112(b), P112(c), P113, P114(a), P114(b), P115, P116, P130, P131, P132(a), P132(b), P133, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144 In the headings of the columns, delete "and arrangements" wherever it appears.

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

P111 For "Inner packagings", after the entries for bags, insert two new rows to read:

"Receptacles
wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P111 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P111 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P111 Amend special packing provision PP43 to read as follows:

"PP43 For UN 0159, inner packagings are not required when metal (1A1, 1A2, 1B1, 1B2, 1N1 or 1N2) or plastics (1H1 or 1H2) drums are used as outer packagings."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(a) For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(a) For "Intermediate packagings", "Receptacles", insert a new row to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(a) For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(a) Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(b) For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(c) For "Intermediate packagings", "Receptacles", insert a new row to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(c) Amend the entries under "Outer packagings", "Boxes" to read:

steel (4A)
aluminium (4B)
other metal (4N)
natural wood, ordinary (4C1)
natural wood, sift-proof (4C2)
plywood (4D)
reconstituted wood (4F)
fibreboard (4G)
plastics, solid (4H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P112(c) Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P113 Amend the entries under "Outer packagings", "Boxes" to read:

steel (4A)
aluminium (4B)
other metal (4N)
natural wood, ordinary (4C1)
natural wood, sift-proof walls (4C2)
plywood (4D)
reconstituted wood (4F)
fibreboard (4G)
plastics, solid (4H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P113 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(a) For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(a) For "Intermediate packagings", insert two new lines to read:

"Dividing partitions"
wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(a) For "Outer packagings", "Boxes", after "steel (4A)", insert a new row to read: "metal, other than steel or aluminium (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(a) Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) fibre (1G) plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(a) Amend special packing provision PP43 to read as follows:

"PP43 For UN 0342, inner packagings are not required when metal (1A1, 1A2, 1B1, 1B2, 1N1 or 1N2) or plastics (1H1 or 1H2) drums are used as outer packagings."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(b) For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(b) Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P114(b) In special packing provisions PP52, replace "1A2 or 1B2" with "1A1, 1A2, 1B1, 1B2, 1N1 or 1N2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P115 For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P115 For "Intermediate packagings", insert two new rows to read:

"Receptacles

wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P115 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P115 Amend special packing provision PP60 to read as follows:

"PP60 For UN No. 0144, aluminium drums (1B1 and 1B2) and metal, other than steel or aluminium, drums (1N1 and 1N2) shall not be used."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P116 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P116 Amend the entries under "Outer packagings", "Drums" and "Jerricans" to read:

Drums
steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)
Jerricans
steel (3A1, 3A2)
plastics (3H1, 3H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P130 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P130 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)
 plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P131 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P131 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)
 plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P132(a) For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P132(b) For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P132(b) For "Outer packagings", "Boxes", after "aluminium (4B)", insert "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P133 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P134 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P134 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)
 plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P135 For "Outer packagings", "Boxes", after "aluminium (4B)", insert "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P135 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)
 plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P136 For "Outer packagings", "Boxes", after "aluminium (4B)", insert "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P136 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)
 plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P137 For "Inner packagings", "Boxes", insert a new row to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P137 For "Outer packagings", "Boxes", after "aluminium (4B)", insert "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P137 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
 aluminium (1B1, 1B2)
 other metal (1N1, 1N2)
 plywood (1D)
 fibre (1G)

plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P138 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P138 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P139 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P139 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P140 For "Inner packagings", after the entries for bags, insert two new rows to read:

**"Receptacles
wood".**

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P140 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P140 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P140 In special packing provision PP75, replace "steel or aluminium" with "steel, aluminium or other metal".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P141 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P141 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P142 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read: "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P142 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P143 For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P143 For "Outer packagings", "Boxes", after "aluminium (4B)", insert "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P143 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P144 For "Inner packagings", "Receptacles", insert a new line to read: "wood".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P144 For "Outer packagings", "Boxes", after "aluminium (4B)", insert a new row to read "other metal (4N)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P144 Amend the entries under "Outer packagings", "Drums" to read:

steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200 (2) In the French text, at the end, replace "1070, oxyde d'azote" with "1070, protoxyde d'azote".

(Correction. Alignment with the UN Model Regulations and in accordance with the designation in Table A)

P200 (3) (d), in the Note, at the end, replace "which approved the receptacles" with "which issued the type approval".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

P200 (7) Renumber the existing paragraph (7) as subparagraph (7) (a) and add a new subparagraph (b) to read as follows:

"(b) LPG to be filled in cylinders shall be of high quality; this is deemed to be fulfilled if the LPG to be filled is in compliance with the corrosion contaminants level of EN 1440:2008, annex E.1, letter b."

P200 (9) At the end of the last paragraph, replace "by the competent authority of the Contracting Party to ADR which has approved the technical code for the design and construction" with "by the competent authority which issued the type approval".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

P200 (10) At the beginning, delete "Keys for the column "Special packing provisions"".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200 (10) Amend the first heading reading "Material compatibility (for gases see ISO 11114-1:1997 and ISO 11114-2:2000" to read "Material compatibility".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200 (10) Amend special packing provision a to read:

"a: Aluminium alloy pressure receptacles shall not be used."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200 (10) Amend special packing provision d to read:

"d: When steel pressure receptacles are used, only those bearing the "H" mark in accordance with 6.2.2.7.4 (p) are permitted."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200 (11) Delete the rows for standards "EN 1801:1998" and "EN 12755:2000" and add the following new row at the end:

Applicable	Reference	Title of document
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requirements		
(10) p	EN ISO 11372:[2011]	Gas cylinders – Acetylene cylinders – Filling conditions and filling inspection [(ISO 11372:2010)]

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

~~P200 (12) — In 2.5, in the English text, replace "contaminates" with "contaminants".~~

~~(Reference document: ECE/TRANS/WP.15/210, annex II)~~

P200 (12) In 2.5: Replace "the corrosion contaminates level of EN 1440:2008, annex E.1, letter b" with "ISO 9162".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

P200, Table 2: For UN Nos. 1008, 1076, 1741, 1859, 2189 and 2418, insert "a" in column "Special packing provisions".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P200, Table 3: For UN No. 1052, insert "a" in column "Special packing provisions".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P201 Amend to read as follows:

P201	PACKING INSTRUCTION	P201
This instruction applies to UN Nos. 3167, 3168 and 3169.		
The following packagings are authorized:		
(1) Cylinders and gas receptacles conforming to the construction, testing and filling requirements approved by the competent authority.		
(2) The following combination packagings provided that the general provisions of 4.1.1 and 4.1.3 are met:		
Outer packagings:		
Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);		
Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);		
Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2).		
Inner packagings:		
(a) For non-toxic gases, hermetically sealed inner packagings of glass or metal with a maximum capacity of 5 litres per package;		
(b) For toxic gases, hermetically sealed inner packagings of glass or metal with a maximum capacity of 1 litre per package.		
Packagings shall conform to the packing group III performance level.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

P203 Under "Requirements for closed cryogenic receptacles", add a new paragraph (8) to read as follows:

"(8) Periodic inspection

The periodic inspection and test frequencies of pressure relief valves in accordance with 6.2.1.6.3 shall not exceed five years."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P301 Replace "vessel" with "receptacle" (eight times).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P302 Amend to read as follows:

P302	PACKING INSTRUCTION	P302
This instruction applies to UN No. 3269.		
The following combination packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:		
Outer packagings:		
Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);		
Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2)		
Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2);		
Inner packagings:		
The activator (organic peroxide) shall have a maximum quantity of 125 ml per inner packaging if liquid, and 500 g per inner packaging if solid.		
The base material and the activator shall be each separately packed in inner packagings.		
The components may be placed in the same outer packaging provided that they will not interact dangerously in the event of a leakage.		
Packagings shall conform to the packing group II or III performance level according to the criteria for Class 3 applied to the base material.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P400 (2) In the first sentence, insert ", 4N" after "4B" and replace "drums (1A2, 1B2, 1N2, 1D or 1G) or jerricans (3A2 or 3B2)" with "drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1D or 1G) or jerricans (3A1, 3A2, 3B1 or 3B2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P400 (3) In the first sentence, replace "4A or 4B" with "4A, 4B or 4N" and replace "Steel, aluminium or metal drums (1A2, 1B2 or 1N2), jerricans (3A2 or 3B2)" with "Steel, aluminium or metal drums (1A1, 1A2, 1B1, 1B2, 1N1 or 1N2), jerricans (3A1, 3A2, 3B1 or 3B2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P401 Amend paragraph (2) to read as follows:

"(2) Combination packagings:

Outer packagings:

Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);

Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);

Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2).

Inner packagings:

Glass, metal or plastics which have threaded closures with a maximum capacity of 1 litre.

Each inner packaging shall be surrounded by inert cushioning and absorbent material in a quantity sufficient to absorb the entire contents.

The maximum net mass per outer packaging shall not exceed 30 kg."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P402 Amend paragraph (2) to read as follows:

"(2) Combination packagings:

Outer packagings:

Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);

Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);

Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2).

Inner packagings with a maximum net mass as follows:

Glass 10 kg

Metal or plastics 15 kg

Each inner packaging shall be fitted with threaded closures.

Each inner packaging shall be surrounded by inert cushioning and absorbent material in a quantity sufficient to absorb the entire contents.

The maximum net mass per outer packaging shall not exceed 125 kg."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P403 For "Combination packagings", under "Outer packagings", amend the entries for "Drums" to read as follows (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plastics (1H1, 1H2)
plywood (1D)
fibre (1G)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P403 For "Combination packagings", "Outer packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P403 For "Combination packagings", under "Outer packagings", amend the entries for "Jerricans" to read as follows (the values for Maximum net mass remain unchanged):

steel (3A1, 3A2)
aluminium (3B1, 3B2)
plastics (3H1, 3H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P404 (1) Amend the text in parentheses for "Outer packagings" to read "(1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F or 4H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P405 (1)(a) Insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P406 (1) For "Outer packagings" replace "1H2 or 3H2" with "1H1, 1H2, 3H1 or 3H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P406 (2) Insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P407 Amend to read as follows:

P407	PACKING INSTRUCTION	P407
This instruction applies to UN Nos. 1331, 1944, 1945 and 2254.		
The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:		
Outer packagings:		
Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);		
Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);		
Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2).		
Inner packagings:		
Matches shall be tightly packed in securely closed inner packagings to prevent accidental ignition under normal conditions of carriage.		
The maximum gross mass of the package shall not exceed 45 kg except for fibreboard boxes which shall not exceed 30 kg.		
Packagings shall conform to the packing group III performance level.		
Special packing provision:		
PP27 [Unchanged]		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P408 Amend to read as follows:

P408	PACKING INSTRUCTION	P408
This instruction applies to UN No. 3292.		
The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:		
(1) For cells:		
Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G);		
Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);		
Jerricans (3A2, 3B2, 3H2).		
There shall be sufficient cushioning material to prevent contact between cells and between cells and the internal surfaces of the outer packaging and to ensure that no dangerous movement of the cells within the outer packaging occurs in carriage.		
Packagings shall conform to the packing group II performance level.		
(2) Batteries may be carried unpacked or in protective enclosures (e.g. fully enclosed or wooden slatted crates). The terminals shall not support the weight of other batteries or materials packed with the batteries.		
Packagings need not meet the requirements of 4.1.1.3.		
Additional requirement:		
Cells and batteries shall be protected against short circuit and shall be isolated in such a manner as to prevent short circuits.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P410 For "Combination packagings", under "Outer packagings", amend the entries for "Drums" to read as follows (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2)
aluminium (1B1, 1B2)

other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) fibre (1G) ^a
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P410 For "Combination packagings", "Outer packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	400 kg	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P410 For "Combination packagings", under "Outer packagings", amend the entries for "Jerricans" to read as follows (the values for Maximum net mass remain unchanged):

steel (3A1, 3A2) aluminium (3B1, 3B2) plastics (3H1, 3H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P410 For "Single packagings", "Boxes", after "aluminium (4B)^c", insert the following row:

other metal (4N) ^c	400 kg	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P411 Amend to read as follows:

P411	PACKING INSTRUCTION	P411
This instruction applies to UN No. 3270.		
The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:		
<ul style="list-style-type: none"> Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans (3A2, 3B2, 3H2); 		
provided that explosion is not possible by reason of increased internal pressure.		
The maximum net mass shall not exceed 30 kg.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P500 Amend to read as follows:

P500	PACKING INSTRUCTION	P500
This instruction applies to UN No. 3356.		
<p>The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:</p> <p style="margin-left: 40px;">Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans (3A2, 3B2, 3H2).</p> <p>Packagings shall conform to the packing group II performance level.</p> <p>The generator(s) shall be carried in a package which meets the following requirements when one generator in the package is actuated:</p> <p>(a) Other generators in the package will not be actuated; (b) Packaging material will not ignite; and (c) The outside surface temperature of the completed package shall not exceed 100 °C.</p>		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P501 In the text for "Combination packagings", (1), insert ", 4N" after "4B" and replace "drums (1A2, 1B2, 1N2, 1H2, 1D) or jerricans (3A2, 3B2, 3H2)" with "drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D) or jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P502 Amend the entries under "Outer packagings", "Drums" to read (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P502 For "Combination packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	125 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P503 Amend the entries under "Outer packagings", "Drums" to read (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2)
aluminium (1B1, 1B2)
other metal (1N1, 1N2)
plywood (1D)
fibre (1G)
plastics (1H1, 1H2)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P503 For "Combination packagings", "Boxes", after "aluminium (4B)", insert the following row:

other metal (4N)	125 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P504 In the text for "Combination packagings", (1) and (2), amend the text before "outer packagings" to read "...1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P504 In the text for "Combination packagings", (4), amend the text before "outer packagings" to read "...1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 4A, 4B, 4N, 4C1, 4C2, 4D, 4H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P520 (1) Insert ", 4N" after "4B" and replace "drums (1A2, 1B2, 1G, 1H2 and 1D), jerricans (3A2, 3B2 and 3H2)" with "drums (1A1, 1A2, 1B1, 1B2, 1G, 1H1, 1H2 and 1D), jerricans (3A1, 3A2, 3B1, 3B2, 3H1 and 3H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P600 Amend the text in parentheses after "Outer packagings:" to read "(1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P601 (1), last indent Replace "1A2, 1B2, 1N2, 1H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2" and insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P601 (2) Replace "1A2, 1B2, 1N2, 1H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2" and insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P601 (3) After "Outer packagings:", replace "Steel or plastics drums, removable head (1A2 or 1H2)," with "Steel or plastics drums (1A1, 1A2, 1H1 or 1H2),".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P602 (1), last indent Replace "1A2, 1B2, 1N2, 1H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2" and insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P602 (2) Replace "1A2, 1B2, 1N2, 1H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2" and insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P620 Amend the first sub-paragraph (b) — before the additional requirements — to read as follows:

"(b) A rigid outer packaging:

Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);

Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);

Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2).

The smallest external dimension shall be not less than 100 mm."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P621 Amend to read as follows:

P621	PACKING INSTRUCTION	P621
This instruction applies to UN No. 3291.		
The following packagings are authorized provided that the general provisions of 4.1.1 except 4.1.1.15 and 4.1.3 are met:		
<p>(1) Provided that there is sufficient absorbent material to absorb the entire amount of liquid present and the packaging is capable of retaining liquids:</p> <p style="padding-left: 40px;">Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G);</p> <p style="padding-left: 40px;">Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);</p> <p style="padding-left: 40px;">Jerricans (3A2, 3B2, 3H2).</p> <p style="padding-left: 40px;">Packagings shall conform to the packing group II performance level for solids.</p>		
<p>(2) For packages containing larger quantities of liquid:</p> <p style="padding-left: 40px;">Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G);</p> <p style="padding-left: 40px;">Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2);</p> <p style="padding-left: 40px;">Composites (6HA1, 6HB1, 6HG1, 6HH1, 6HD1, 6HA2, 6HB2, 6HC, 6HD2, 6HG2, 6HH2, 6PA1, 6PB1, 6PG1, 6PD1, 6PH1, 6PH2, 6PA2, 6PB2, 6PC, 6PG2 or 6PD2).</p> <p style="padding-left: 40px;">Packagings shall conform to the packing group II performance level for liquids.</p>		
Additional requirement:		
Packagings intended to contain sharp objects such as broken glass and needles shall be resistant to puncture and retain liquids under the performance test conditions in Chapter 6.1.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P650 Amend paragraph (9) (a) including the Note to read as follows:

"(a) When dry ice or liquid nitrogen is used as a coolant, the requirements of 5.5.3 shall apply. When used, ice shall be placed outside the secondary packagings or in the outer packaging or an overpack. Interior supports shall be provided to secure the secondary packagings in the original position. If ice is used, the outside packaging or overpack shall be leakproof."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P800 Amend the entries under "Outer packagings", "Drums" to read (the values for Maximum net mass remain unchanged):

steel (1A1, 1A2)
metal, other than steel or aluminium (1N1, 1N2)
plastics (1H1, 1H2)
plywood (1D)
fibre (1G)

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P800 In paragraph (3) (d), for "Boxes", after "steel (4A)", insert the following row:

metal, other than steel or aluminium (4N)	400 kg
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P802 (1) Replace "1A2, 1B2, 1N2, 1H2, 1D, 4A, 4B, 4C1, 4C2, 4D, 4F, or 4H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G or 4H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P802 (2) Replace "1A2, 1B2, 1N2, 1H2, 1D, 1G, 4A, 4B, 4C1, 4C2, 4D, 4F, 4G or 4H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G or 4H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P803 (2) Insert ", 4N" after "4B".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P804 (1), last indent Replace "1A2, 1B2, 1N2, 1H2, 1D, 1G, 4A, 4B, 4C1, 4C2, 4D, 4F, 4G or 4H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G or 4H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P804 (2) Replace "1A2, 1B2, 1N2, 1H2, 1D, 1G, 4A, 4B, 4C1, 4C2, 4D, 4F, 4G or 4H2" with "1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G, 4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G or 4H2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P804 (3) After "Outer packagings:", replace "Steel or plastics drums, removable head (1A2 or 1H2)" with "Steel or plastics drums (1A1, 1A2, 1H1 or 1H2)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P901 Amend to read as follows:

P901	PACKING INSTRUCTION	P901
	This instruction applies to UN No. 3316.	
	The following combination packagings are authorized provided the general provisions of 4.1.1 and 4.1.3 are met: Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans (3A1, 3A2, 3B1, 3B2, 3H1, 3H2). Packagings shall conform to the performance level consistent with the packing group assigned to the kit as a whole (see 3.3.1, special provision 251). Maximum quantity of dangerous goods per outer packaging: 10 kg excluding the mass of any carbon dioxide, solid (dry ice) used as a refrigerant.	
	Additional requirement: Dangerous goods in kits shall be packed in inner packagings which shall not exceed either 250 ml or 250 g and shall be protected from other materials in the kit.	

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P902 Amend to read as follows:

P902	PACKING INSTRUCTION	P902
	This instruction applies to UN No. 3268.	
	Packaged articles: The following packagings are authorized provided the general provisions of 4.1.1 and 4.1.3 are met: Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2); Jerricans (3A2, 3B2, 3H2).	

<p>Packagings shall conform to the packing group III performance level.</p> <p>The packagings shall be designed and constructed so as to prevent movement of the articles and inadvertent operation during normal conditions of carriage.</p> <p>Unpackaged articles:</p> <p>The articles may also be carried unpackaged in dedicated handling devices, vehicles or containers when moved from where they are manufactured to an assembly plant.</p>
<p>Additional requirement:</p> <p>Any pressure receptacle shall be in accordance with the requirements of the competent authority for the substance(s) contained therein.</p>

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P903 Amend to read as follows:

P903	PACKING INSTRUCTION	P903
<p>This instruction applies to UN Nos. 3090, 3091, 3480 and 3481.</p>		
<p>The following packagings are authorized provided that the general provisions of 4.1.1 and 4.1.3 are met:</p> <p>(1) For cells and batteries:</p> <p style="padding-left: 40px;">Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G);</p> <p style="padding-left: 40px;">Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);</p> <p style="padding-left: 40px;">Jerricans (3A2, 3B2, 3H2).</p> <p>Cells or batteries shall be packed in packagings so that the cells or batteries are protected against damage that may be caused by the movement or placement of the cells or batteries within the packaging.</p> <p>Packagings shall conform to the packing group II performance level.</p> <p>(2) In addition for cells or batteries with a gross mass of 12 kg or more employing a strong, impact resistant outer casing, and assemblies of such cells or batteries:</p> <p>(a) Strong outer packagings, in protective enclosures (e.g., in fully enclosed or wooden slatted crates); or</p> <p>(b) Pallets or other handling devices.</p> <p>Cells or batteries shall be secured to prevent inadvertent movement, and the terminals shall not support the weight of other superimposed elements.</p> <p>Packagings need not meet the requirements of 4.1.1.3.</p> <p>(3) For cells or batteries packed with equipment:</p> <p>Packagings conforming to the requirements in paragraph (1) of this packing instruction, then placed with the equipment in an outer packaging; or</p> <p>Packagings that completely enclose the cells or batteries, then placed with equipment in a packaging conforming to the requirements in paragraph (1) of this packing instruction.</p> <p>The equipment shall be secured against movement within the outer packaging.</p> <p>For the purpose of this packing instruction, "equipment" means apparatus requiring the lithium metal or lithium ion cells or batteries with which it is packed for its operation.</p> <p>(4) For cells or batteries contained in equipment:</p> <p>Strong outer packagings constructed of suitable material, and of adequate strength and design in relation to the packaging capacity and its intended use. They shall be constructed in such a manner as to prevent accidental operation during carriage. Packagings need not meet the requirements of 4.1.1.3.</p> <p>Large equipment can be offered for carriage unpackaged or on pallets when the cells or batteries are afforded equivalent protection by the equipment in which they are contained.</p> <p>Devices such as radio frequency identification (RFID) tags, watches and temperature loggers,</p>		

which are not capable of generating a dangerous evolution of heat, may be carried when intentionally active in strong outer packagings.

Additional requirement:

Cells or batteries shall be protected against short circuit.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

P904 Amend the additional requirement including the Note to read as follows:

"Additional requirement:

Ice, dry ice and liquid nitrogen

When dry ice or liquid nitrogen is used as a coolant, the requirements of 5.5.3 shall apply. When used, ice shall be placed outside the secondary packagings or in the outer packaging or an overpack. Interior supports shall be provided to secure the secondary packaging in the original position. If ice is used, the outside packaging or overpack shall be leakproof."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.4.1 Add the following new packing instructions:

P206	PACKING INSTRUCTION	P206
This instruction applies to UN Nos. 3500, 3501, 3502, 3503, 3504 and 3505.		
Unless otherwise indicated in ADR, cylinders and pressure drums conforming to the applicable requirements of Chapter 6.2 are authorized.		
<ol style="list-style-type: none"> (1) The special packing provisions of 4.1.6 shall be met. (2) The maximum test period for periodic inspection shall be 5 years. (3) Cylinders and pressure drums shall be so filled that at 50 °C the non-gaseous phase does not exceed 95% of their water capacity and they are not completely filled at 60 °C. When filled, the internal pressure at 65 °C shall not exceed the test pressure of the cylinders and pressure drums. The vapour pressures and volumetric expansion of all substances in the cylinders and pressure drums shall be taken into account. (4) The minimum test pressure shall be in accordance with P200 for the propellant but shall not be less than 20 bar. 		
Additional requirement:		
Cylinders and pressure drums shall not be offered for carriage when connected with spray application equipment such as a hose and wand assembly.		
Special packing provision:		
PP89 For UN Nos. 3501, 3502, 3503, 3504 and 3505, notwithstanding 4.1.6.9 (b), non-refillable cylinders used may have a water capacity in litres not exceeding 1 000 litres divided by the test pressure expressed in bars provided capacity and pressure restrictions of the construction standard comply with ISO 11118:1999, which limits the maximum capacity to 50 litres.		

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

P207	PACKING INSTRUCTION	P207
This instruction applies to UN No. 1950.		
The following packagings are authorized, provided that the general provisions of 4.1.1 and 4.1.3 are met:		
(a) Drums (1A1, 1A2, 1B1, 1B2, 1N1, 1N2, 1H1, 1H2, 1D, 1G); Boxes (4A, 4B, 4N, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2). Packagings shall conform to the packing group II performance level.		
(b) Rigid outer packagings with a maximum net mass as follows: Fibreboard 55 kg Other than fibreboard 125 kg The provisions of 4.1.1.3 need not be met.		
The packagings shall be designed and constructed to prevent movement of the aerosols and inadvertent discharge during normal conditions of carriage.		
Special packing provision:		
PP87 For UN 1950 waste aerosols carried in accordance with special provision 327, the packagings shall have a means of retaining any free liquid that might escape during carriage, e.g. absorbent material. The packaging shall be adequately ventilated to prevent the creation of flammable atmosphere and the build-up of pressure.		
RR6 For UN 1950 in the case of carriage by full load, metal articles may also be packed as follows: the articles shall be grouped together in units on trays and held in position with an appropriate plastics cover; these units shall be stacked and suitably secured on pallets.		

Renumber existing P206 as P208 and, in Table A of Chapter 3.2, for UN No. 3150 in column (8), replace "P206" with "P208".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.4.2 **IBC520** For UN 3119, in the entry for "Di-(3,5,5-trimethylhexanoyl) peroxide, not more than 38% in diluent type A", in column "Organic peroxide", replace "38%" with "52%".

For UN 3119, in the entry for "1,1,3,3-Tetramethylbutyl peroxyneodecanoate, not more than 52%, stable dispersion, in water", insert the following new row:

Type of IBC	Maximum quantity (litres)	Control temperature	Emergency temperature
31HA1	1 000	-5 °C	+5 °C

Insert the following new entries:

UN No	Organic peroxide	Type of IBC	Maximum quantity (litres)	Control temperature	Emergency temperature
3119	Diisobutyl peroxide, not more than 28% as a stable dispersion in water	31HA1	1 000	-20 °C	-10 °C
		31A	1 250	-20 °C	-10 °C
3119	Diisobutyl peroxide, not more than 42% as a stable dispersion in water	31HA1	1 000	-25 °C	-15 °C
		31A	1 250	-25 °C	-15 °C

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.4.3 **LP902** Before "The following packagings are authorized...", insert a new heading to read "**Packaged articles:**" and before "The articles may also...", insert a paragraph break and a new heading to read "**Unpackaged articles:**". In the additional requirement, replace "pressure vessel" with "pressure receptacle" (twice).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.5.17 Replace "1A2, 1B2" with "1A1, 1A2, 1B1, 1B2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.6.5 In the first sentence, add "and, in case of a chemical under pressure, for the propellant" after "authorized for the substance".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.6.10 In the first sentence, replace "or P205" with ", P205 or P206".

Add a new second sentence to read as follows: "Pressure relief valves for closed cryogenic receptacles shall be subject to periodic inspections and tests according to the provisions of 6.2.1.6.3 and packing instruction P203."

4.1.6.15 In the first line for 4.1.6.8 (b) and (c), replace "ISO 11117:1998" with "either ISO 11117:1998 or ISO 11117:2008 + Cor 1:2009".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.1.6.15 In the Table, replace "ISO 11621:2005" with: "ISO 11621:1997".

Under the title of this standard, insert a Note to read as follows:

"NOTE: *The EN version of this ISO standard fulfils the requirements and may also be used.*"

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

In the Table, replace "Annex A of EN ISO 10297:2006" with: "Annex A of ISO 10297:2006".

Under the title of this standard, insert a Note to read as follows:

"NOTE: *The EN version of this ISO standard fulfils the requirements and may also be used.*"

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

4.1.8.2 Replace "4.1.1.16" with "4.1.1.17".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 4.1.1.16)

Chapter 4.2

4.2.2 In the heading, add "and chemicals under pressure" at the end.

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.2.2.1 At the end, add "and chemicals under pressure".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.2.2.2 In the second sentence, insert "and chemicals under pressure" after "Non-refrigerated liquefied gases".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.2.2.7.1 In the first sentence, insert "or the propellant of the chemical under pressure" after "for the non-refrigerated liquefied gas" and insert ", or with chemicals under pressure" after "loaded with non-refrigerated liquefied gases". In the second sentence, insert "or propellant of chemicals under pressure" after "the temperature of the non-refrigerated liquefied gas".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

4.2.5.2.6

T50 In the second heading row, amend the first sentence to read as follows "This portable tank instruction applies to non-refrigerated liquefied gases and chemicals under pressure (UN Nos. 3500, 3501, 3502, 3503, 3504 and 3505)".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

T50 In the heading of the last column, replace "Maximum filling density (kg/l)" with "Maximum filling ratio".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

T50 For UN 3220, in the last column (Maximum filling ratio), replace "0.95" with "0.87".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

T50 Add the following new entries:

UN No.	Non-refrigerated liquefied gases	Max. allowable working pressure (bar)	Openings below liquid level	Pressure-relief requirements (see 6.7.3.7)	Maximum filling ratio
3500	Chemical under pressure, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c
3501	Chemical under pressure, flammable, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c
3502	Chemical under pressure, toxic, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c
3503	Chemical under pressure, corrosive, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c
3504	Chemical under pressure, flammable, toxic, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c

^c For UN Nos. 3500, 3501, 3502, 3503, 3504 and 3505, the degree of filling shall be considered instead of the maximum filling ratio.

UN No.	Non-refrigerated liquefied gases	Max. allowable working pressure (bar)	Openings below liquid level	Pressure-relief requirements (see 6.7.3.7)	Maximum filling ratio
3505	Chemical under pressure, flammable, corrosive, n.o.s.	See MAWP definition in 6.7.3.1	Allowed	See 6.7.3.7.3	TP4 ^c

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

4.2.5.3

Insert new portable tank special provisions TP38, TP39 and TP40 to read as follows:

"TP38 Portable tank instruction T9 prescribed in ADR applicable up to 31 December 2012 may continue to be applied until 31 December 2018."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"TP39 Portable tank instruction T4 prescribed in ADR applicable up to 31 December 2012 may continue to be applied until 31 December 2018."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

"TP40 Portable tanks shall not be carried when connected with spray application equipment."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Chapter 4.3

4.3.2.2.1 (a) and (b) Replace "venting system" with "breather device".

(Reference documents: ECE/TRANS/WP.15/AC.1/124/Add.1)

4.3.2.3.3 Amend the last two sentences to read as follows:

"After filling, the filler shall ensure that all the closures of the tanks, battery-vehicles and MEGCs are in the closed position and there is no leakage. This also applies to the upper part of the dip tube."

(Reference document: ECE/TRANS/WP.15/208, Annex I)

4.3.3.1.1 NOTE 2 becomes NOTE 3.

Insert a new NOTE 2 to read as follows:

"NOTE 2: The special provision TU40 indicated in Column (13) of Table A in Chapter 3.2 for certain gases means that the gas may only be carried in a battery-vehicle or MEGC, the elements of which are composed of seamless receptacles."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

4.3.3.2.5 In the Table, insert the following new rows:

UN No.	Name	Classification code	Minimum test pressure for tanks				Maximum permissible mass of contents per litre of capacity kg
			With thermal insulation		Without thermal insulation		
			MPa	bar	MPa	bar	
1075	Petroleum gases, liquefied	2F	See 4.3.3.2.2 or 4.3.3.2.3				
1081	Tetrafluoroethylene, stabilized	2F	only in battery wagons /battery-vehicles and MEGCs composed of seamless receptacles				

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II and ECE/TRANS/WP.15/AC.1/124/Add.1)

Add a new 4.3.3.3.4 to read as follows:

"4.3.3.3.4 When the external overpressure could be greater than the tank resistance to external pressure (e.g. due to low ambient temperatures), adequate measures shall be taken to protect tanks carrying low pressure liquefied gases against the risk of deformation, e.g. by filling them with nitrogen or another inert gas in order to maintain sufficient pressure inside the tank."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

4.3.4.1.1 In the table, for Part 4

For "V =" and "F =" Replace "venting system," with "breather device" and replace "flame trap" with "device protecting against the propagation of a flame".

For "N =" Replace "venting system" with "breather device".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

~~4.3.4.1.3 (e) Before "UN No. 1415 lithium" insert "UN No. 1402 calcium carbide, packing group I,".~~

4.3.4.1.3 (c) At the end, add "UN No. 1402 calcium carbide, packing group I: code S2.65AN;".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II + correction)

4.3.5 In special provision TU22, before "a space of 5%", insert: "for liquids,".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

Add a new special provision TU40 to read as follows:

"TU40 Only to be carried in battery-vehicles or MEGCs, the elements of which are composed of seamless receptacles."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

Chapter 4.5

4.5.2.2 Amend to read as follows:

"4.5.2.2 For carriage of liquids meeting the flash point criteria of Class 3, vacuum-operated waste tanks shall be filled through filling devices which discharge into the tank at a low level. Measures shall be taken to minimize the production of spray."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Part 5

Chapter 5.1

5.1.2.1 (a) Amend subparagraph (ii) and the subsequent paragraph to read as follows:

"(ii) marked with the UN number preceded by the letters "UN", labelled as required for packages in 5.2.2 and marked with the environmentally hazardous substance mark if required for packages in 5.2.1.8, for each item of dangerous goods contained in the overpack;

unless the UN numbers, the labels and the environmentally hazardous substance mark representative of all dangerous goods contained in the overpack are visible, except as required in 5.2.2.1.11. If the same UN number, the same label or the environmentally hazardous substance mark is required for different packages, it only needs to be applied once."

(Reference document: ECE/TRANS/WP.15/208, Annex I)

Chapter 5.2

5.2.1.1 Insert the following new second sentence: " The UN number and the letters "UN" shall be at least 12 mm high, except for packages of 30 litres capacity or less or of 30 kg maximum net mass and for cylinders of 60 litres water capacity or less, when they shall be at least 6 mm in height and except for packages of 5 litres or 5 kg or less when they shall be of an appropriate size."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

5.2.1.3 Insert "and salvage pressure receptacles" after "salvage packagings".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

5.2.1.8.3 Add the following new note at the end:

"NOTE: The labelling provisions of 5.2.2 apply in addition to any requirement for packages to bear the environmentally hazardous substance mark."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

5.2.1.9.2 Amend to read as follows:

"5.2.1.9.2 Orientation arrows are not required on:

(a) Outer packagings containing pressure receptacles except cryogenic receptacles;

(b) Outer packagings containing dangerous goods in inner packagings each containing not more than 120 ml, with sufficient absorbent material between the inner and outer packagings to completely absorb the liquid contents;

(c) Outer packagings containing Class 6.2 infectious substances in primary receptacles each containing not more than 50 ml;

(d) Type IP-2, type IP-3, type A, type B(U), type B(M) or type C packages containing Class 7 radioactive material;

(e) Outer packagings containing articles which are leak-tight in all orientations (e.g. alcohol or mercury in thermometers, aerosols, etc.); or

(f) Outer packagings containing dangerous goods in hermetically sealed inner packagings each containing not more than 500 ml."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

5.2.2.2.1.2:

In the first paragraph, add "and the environmentally hazardous substance mark when appropriate" after "specified in this section". In the second paragraph, add "and the environmentally hazardous substance mark (see 5.2.1.8.3)" before "may overlap to the extent".

(Reference document: ECE/TRANS/WP.15/210, annex II)

Chapter 5.3

5.3.1.7.2:

In the description under the placard in accordance with Model No. 7D, delete ", when required," and replace "(see 5.3.2.1.2)" with ",".

(Reference document: ECE/TRANS/WP.15/210, annex II)

5.3.1.7.3 Add the following sentence at the end:

"If these labels are not visible from outside the carrying vehicle, placards according to 5.3.1.7.1 shall also be affixed to both sides and at the rear of the vehicle."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

5.3.2.1.1:

Add the following new paragraph at the end:

"If a trailer containing dangerous goods is detached from its motor vehicle during carriage of dangerous goods, an orange-coloured plate shall remain affixed to the rear of the trailer."

(Reference document: ECE/TRANS/WP.15/210)

5.3.2.3.2 Insert the following new lines:

"28 gas, corrosive"

"238 gas, flammable corrosive"

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 Consequential amendments for chemicals under pressure after the new entries for Table A in Chapter 3.2)

Chapter 5.4

5.4.1.1.5 Amend to read as follows:

"5.4.1.1.5 *Special provisions for salvage packagings and salvage pressure receptacles*

When dangerous goods are carried in a salvage packaging or salvage pressure receptacle, the words "**SALVAGE PACKAGING**" or "**SALVAGE PRESSURE RECEPTACLE**" shall be added after the description of the goods in the transport document."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

5.4.1.1.18 In the first sub-paragraph after "ENVIRONMENTALLY HAZARDOUS", insert: "or "MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS"".

In the second sub-paragraph, delete: "instead of "ENVIRONMENTALLY HAZARDOUS"".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II + ECE/TRANS/WP.15/AC.1/124/Add.1)

5.4.2 In footnote 5:

5.4.2.3 For "dangerous goods documentation" read "container/vehicle packing certificate".

5.4.2.4 For "dangerous goods ~~documentation~~transport information" read "container/vehicle packing certificate".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + correction)

Chapter 5.5

Add the following new section:

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

"5.5.3 Special provisions applicable to packages and vehicles and containers containing substances presenting a risk of asphyxiation when used for cooling or conditioning purposes (such as dry ice (UN 1845) or nitrogen, refrigerated liquid (UN 1977) or argon, refrigerated liquid (UN 1951))"

5.5.3.1 Scope

5.5.3.1.1 This section is not applicable to substances which may be used for cooling or conditioning purposes when carried as a consignment of dangerous goods. When they are carried as a consignment, these substances shall be carried under the relevant entry of Table A in Chapter 3.2 in accordance with the associated conditions of carriage.

5.5.3.1.2 This section is not applicable to gases in cooling cycles.

5.5.3.1.3 Dangerous goods used for cooling or conditioning tanks or MEGCs during carriage are not subject to this section.

5.5.3.2 General

5.5.3.2.1 Vehicles and containers containing substances used for cooling or conditioning purposes (other than fumigation) during carriage are not subject to any provisions of ADR other than those of this section.

5.5.3.2.2 When dangerous goods are loaded in cooled or conditioned vehicles and containers any provisions of ADR relevant to these dangerous goods apply in addition to the provisions of this section.

5.5.3.2.3 (Reserved)

5.5.3.2.4 Persons engaged in the handling or carriage of cooled or conditioned vehicles and containers shall be trained commensurate with their responsibilities.

5.5.3.3 *Packages containing a coolant or conditioner*

5.5.3.3.1 Packaged dangerous goods requiring cooling or conditioning assigned to packing instructions P203, P620, P650, P800, P901 or P904 of 4.1.4.1 shall meet the appropriate requirements of that packing instruction.

5.5.3.3.2 For packaged dangerous goods requiring cooling or conditioning assigned to other packing instructions, the packages shall be capable of withstanding very low temperatures and shall not be affected or significantly weakened by the coolant or conditioner. Packages shall be designed and constructed to permit the release of gas to prevent a build-up of pressure that could rupture the packaging. The dangerous goods shall be packed in such a way to prevent movement after the dissipation of any coolant or conditioner.

5.5.3.3.3 Packages containing a coolant or conditioner shall be carried in well ventilated vehicles and containers.

5.5.3.4 *Marking of packages containing a coolant or conditioner*

5.5.3.4.1 Packages containing dangerous goods used for cooling or conditioning shall be marked with the name indicated in Column (2) of Table A of Chapter 3.2 of these dangerous goods followed by the words "AS COOLANT" or "AS CONDITIONER" as appropriate in an official language of the country of origin and also, if that language is not English, French or German, in English, French or German, unless agreements concluded between the countries concerned in the transport operation provide otherwise.

5.5.3.4.2 The markings shall be durable, legible and placed in such a location and of such a size relative to the package as to be readily visible.

5.5.3.5 *Vehicles and containers containing unpackaged dry ice*

5.5.3.5.1 If dry ice in unpackaged form is used, it shall not come into direct contact with the metal structure of a vehicle or container to avoid embrittlement of the metal. Measures shall be taken to provide adequate insulation between the dry ice and the vehicle or container by providing a minimum of 30 mm separation (e.g. by using suitable low heat conducting materials such as timber planks, pallets etc).

5.5.3.5.2 Where dry ice is placed around packages, measures shall be taken to ensure that packages remain in the original position during carriage after the dry ice has dissipated.

5.5.3.6 *Marking of vehicles and containers*

5.5.3.6.1 Vehicles and containers containing dangerous goods used for cooling or conditioning shall be marked with a warning mark, as specified in 5.5.3.6.2 affixed at each access point in a location where it will be easily seen by persons opening or entering the vehicle or container. This mark shall remain on the vehicle or container until the following provisions are met:

(a) The vehicle or container has been ventilated to remove harmful concentrations of coolant or conditioner; and

(b) The cooled or conditioned goods have been unloaded.

5.5.3.6.2 The warning mark shall be rectangular and shall not be less than 150 mm wide and 250 mm high. The warning mark shall include:

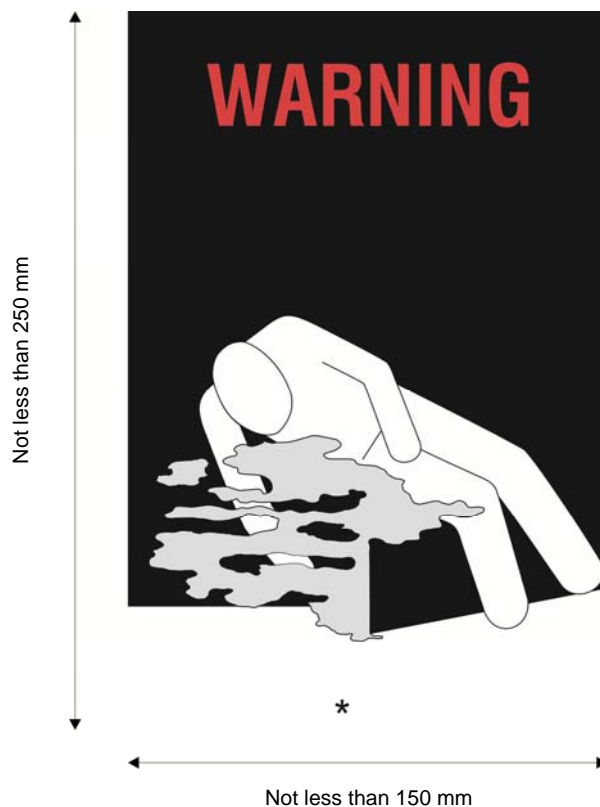
(a) The word "WARNING" in red or white with lettering not less than 25 mm high in an official language of the country of origin and also, if that language is not

English, French or German, in English, French or German, unless agreements concluded between the countries concerned in the transport operation provide otherwise; and

(b) The name indicated in Column (2) of Table A of Chapter 3.2 followed by the words "AS COOLANT" or "AS CONDITIONER" as appropriate, shown below the symbol in black letters on a white background with lettering not less than 25 mm high in an official language of the country of origin and also, if that language is not English, French or German, in English, French or German, unless agreements concluded between the countries concerned in the transport operation provide otherwise.

For example: CARBON DIOXIDE, SOLID, AS COOLANT.

An illustration of this mark is given below.



* insert the name indicated in Column (2) of Table A of Chapter 3.2 followed by the words "AS COOLANT" or "AS CONDITIONER" as appropriate.

5.5.3.7 Documentation

5.5.3.7.1 Documents (such as a bill of lading, cargo manifest or CMR/CIM consignment note) associated with the carriage of vehicles or containers that have been cooled or conditioned and have not been completely ventilated before carriage shall include the following information:

- (a) The UN number preceded by the letters "UN"; and
- (b) The name indicated in Column (2) of Table A of Chapter 3.2 followed by the words "AS COOLANT" or "AS CONDITIONER" as appropriate in an official language of the country of origin and also, if that language is not English, French or German, in English, French or German, unless agreements, if any, concluded between the countries concerned in the transport operation provide otherwise.

For example: UN 1845, CARBON DIOXIDE, SOLID, AS COOLANT".

5.5.3.7.2 The transport document may be in any form, provided it contains the information required in 5.5.3.7.1. This information shall be easy to identify, legible and durable."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/Ac.1/124/Add.1)

Part 6

Chapter 6.1

6.1.2.7 In the table, under "4. Boxes", after the entries for "H. Plastics", insert the following row:

N. Metal, other than steel or aluminium	4N	6.1.4.14
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.1.3.1 (a) (i) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.1.4.14 Amend to read as follows:

"6.1.4.14 Steel, aluminium or other metal boxes

4A steel boxes

4B aluminium boxes

4N metal, other than steel or aluminium, boxes".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.1.5.2.6 In the first paragraph, replace "4.1.1.19" with "4.1.1.21".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering)

6.1.5.2.7 In the first sentence, replace "4.1.1.19" with "4.1.1.21". In the last sentence, replace "4.1.1.19.2" with "4.1.1.21.2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering)

Chapter 6.2

6.2.1.1.5 Amend the first sentence to read as follows: "The test pressure of cylinders, tubes, pressure drums and bundles of cylinders shall be in accordance with packing instruction P200 of 4.1.4.1, or, for a chemical under pressure, with packing instruction P206 of 4.1.4.1."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.2.1.6.1 At the end, amend Note 4 to read as follows:

"NOTE 4: For the periodic inspection and test frequencies, see packing instruction P200 of 4.1.4.1 or, for a chemical under pressure, packing instruction P206 of 4.1.4.1."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Add a new paragraph 6.2.1.6.3 to read as follows:

"6.2.1.6.3 Pressure relief valves for closed cryogenic receptacles shall be subject to periodic inspections and tests."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.2.2.3 In the first table, amend the row for ISO 11117:1998 to read as follows:

ISO 11117:2008 + Cor 1:2009	Gas cylinders – Valve protection caps and valve guards – Design, construction and tests NOTE: Construction according to ISO 11117:1998 may continue until 31 December 2014.
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At the end of the first table, add a new row to read as follows:

ISO 13340:2001	Transportable gas cylinders – Cylinder valves for non-refillable cylinders – Specification and prototype testing
----------------	--

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.2.2.4 Insert the following new row in the table:

ISO 10460:2005	Gas cylinders – Welded carbon-steel gas cylinders – Periodic inspection and testing NOTE: The repair of welds described in clause 12.1 of this standard shall not be permitted. Repairs described in clause 12.2 require the approval of the competent authority which approved the periodic inspection and test body in accordance with 6.2.2.6.
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.2.2.7.2 (a) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.2.2.9.2 (a) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.2.3.4.1 Delete the whole text after "with the requirements of 6.2.1.5".

(Reference document: ECE/TRANS/WP.15/208, Annex I)

6.3.4.2 (a) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.2.3.6.1 In the first paragraph after the table, at the beginning, replace "The conformity assessment of valves and other accessories" with "For refillable pressure receptacles, the conformity assessment of valves and other demountable accessories".

(Reference document: ECE/TRANS/WP.15/210, annex II)

6.2.3.9 Add the following new 6.2.3.9.7:

"6.2.3.9.7 Marking of bundles of cylinders

6.2.3.9.7.1 Individual cylinders in a bundle of cylinders shall be marked in accordance with 6.2.3.9.

6.2.3.9.7.2 A plate permanently attached to the frame of the bundle shall bear the following markings:

(a) The certification marks specified in 6.2.2.7.2 (b), (c), (d) and (e);

(b) The operational marks specified in 6.2.2.7.3 (f), (i), (j) and the gross mass which shall include the mass of the frame of the bundle and all permanently attached parts (cylinders, manifold, fittings and valves). Bundles intended for the carriage of UN No. 1001 acetylene, dissolved and UN No. 3374 acetylene, solvent free shall bear the tare mass as specified in paragraph (a) (6) of clause 5.4 of EN 12755:2000; and

(c) The manufacturing marks specified in 6.2.2.7.4 (n), (o) and, where applicable, (p).

6.2.3.9.7.3 The marks shall be placed in three groups:

(a) The manufacturing marks shall be the top grouping and shall appear consecutively in the sequence given in 6.2.3.9.7.2 (c);

[(b) The operational marks in 6.2.3.9.7.2 (b) shall be the middle grouping and the operational mark specified in 6.2.2.7.3 (f) shall be immediately preceded by the operational mark specified in 6.2.2.7.3 (i) when the latter is required;]

(c) Certification marks shall be the bottom grouping and shall appear in the sequence given in 6.2.3.9.7.2 (a)."

(Reference document: ECE/TRANS/WP.15/210, annex II)

Add a new 6.2.3.11 to read as follows:

"6.2.3.11 *Salvage pressure receptacles*

6.2.3.11.1 To permit the safe handling and disposal of the pressure receptacles carried within the salvage pressure receptacle, the design may include equipment not otherwise used for cylinders or pressure drums such as flat heads, quick opening devices and openings in the cylindrical part.

6.2.3.11.2 Instructions on the safe handling and use of the salvage pressure receptacle shall be clearly shown in the documentation for the application to the competent

authority of the country of approval and shall form part of the approval certificate. In the approval certificate, the pressure receptacles authorized to be carried in a salvage pressure receptacle shall be indicated. A list of the materials of construction of all parts likely to be in contact with the dangerous goods shall also be included.

6.2.3.11.3 A copy of the approval certificate shall be delivered by the manufacturer to the owner of a salvage pressure receptacle.

6.2.3.11.4 The marking of salvage pressure receptacles according to 6.2.3 shall be determined by the competent authority of the country of approval in taking into account suitable marking provisions of 6.2.3.9 as appropriate. The marking shall include the water capacity and test pressure of the salvage pressure receptacle."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + ECE/TRANS/WP.15/AC.1/124/Add.1)

Note: The order of the amendments to 6.2.4.1 will be finalized when preparing the final version of the list of amendments.

6.2.4.1 In the table, under "for design and construction", make the following amendments:

In the entry for standard "EN 1964-1:1999", in column (4), replace "Until further notice" with "Until 31 December 2014".

In the entry for standard "EN 1964-2:2001", in column (4), replace "Until further notice" with "Until 31 December 2014".

After the entry for standard "EN 1964-2:2001", insert the following standards:

(1)	(2)	(3)	(4)	(5)
EN ISO 9809-1:2010	Gas cylinders — Refillable seamless steel gas cylinders — Design, construction and testing — Part 1: Quenched and tempered steel cylinders with tensile strength less than 1100 MPa (ISO/DIS 9809-1:2008)†	6.2.3.1 and 6.2.3.4	Until further notice	
EN ISO 9809-2:2010	Gas cylinders — Refillable seamless steel gas cylinders — Design, construction and testing — Part 2: Quenched and tempered steel cylinders with tensile strength greater than or equal to 1100 MPa (ISO/DIS 9809-2:2008)†	6.2.3.1 and 6.2.3.4	Until further notice	
EN ISO 9809-3:2010	Gas cylinders — Refillable seamless steel gas cylinders — Design, construction and testing — Part 3: Normalized steel cylinders (ISO/DIS 9809-3:2008)†	6.2.3.1 and 6.2.3.4	Until further notice	

In the Table, under "for closures", make the following amendments:

Before the entry for standard "EN 13152:2001", insert the following standard:

(1)	(2)	(3)	(4)	(5)
EN ISO 14245:2010	Gas cylinders — Specifications and testing of LPG cylinder valves — Self-closing (ISO 14245:2006)†	6.2.3.3	Until further notice	

In the entry for standard “EN 13152:2001 + A1:2003”, in column (4), replace “Until further notice” with “Between 1 January 2009 and 31 December 2014”.

Before the entry for standard “EN 13153:2001”, insert the following standard:

(1)	(2)	(3)	(4)	(5)
EN ISO 15995:2010	Gas cylinders — Specifications and testing of LPG cylinder valves — Manually operated (ISO 15995:2006)	6.2.3.3	Until further notice	

In the entry for standard “EN 13153:2001 + A1:2003”, in column (4), replace “Until further notice” with “Between 1 January 2009 and 31 December 2014”.

(Reference document: ECE/TRANS/WP.15/208, Annex I)

6.2.4.1:

In the table under “for closures”, amend column (3) for the seven entries to read “6.2.3.1 and 6.2.3.3”. For reference “EN 849:1996 (except Annex A)”, add in column (5) “31 December 2014”. For reference “EN 849:1996 + A2:2001”, add in column (5) “31 December 2016”.

In the table under “for design and construction”, add a new line to read as follows:

EN 14638-3:2010	Transportable gas cylinders — Refillable welded receptacles of a capacity not exceeding 150 litres — Part 3: Welded carbon steel cylinders made to a design justified by experimental methods	6.2.3.1 and 6.2.3.4	Until further notice	
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(Reference document: ECE/TRANS/WP.15/210, annex II)

6.2.4.1 In the Table, under "for design and construction", in column (4), for standard "EN 1975:1999 + A1:2003", replace "Until further notice" with: "Before 1 January 2015".

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

In the Table, under "for design and construction", after standard "EN 14893:2006 + AC:2007", insert the following new standard:

Reference	Title of document	Applicable sub-sections and paragraphs	Applicable for new type approvals or for renewals	Latest date for withdrawal of existing type approvals
(1)	(2)	(3)	(4)	(5)
[EN ISO 7866:2011	Gas cylinders – refillable seamless aluminium alloy gas cylinders – Design, construction and testing (ISO/DIS 7866:2011)]	6.2.3.1 and 6.2.3.4	Until further notice	

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II + ECE/TRANS/WP.15/AC.1/124/Add.1)

In the Table, under "for closures", after standard "EN 13153:2001 + A1:2003", insert the following new standard:

<i>Reference</i>	<i>Title of document</i>	<i>Applicable sub-sections and paragraphs</i>	<i>Applicable for new type approvals or for renewals</i>	<i>Latest date for withdrawal of existing type approvals</i>
(1)	(2)	(3)	(4)	(5)
EN ISO 13340:2001	Transportable gas cylinders – Cylinder valves for non-refillable cylinders – Specification and prototype testing	6.2.3.1 and 6.2.3.3	Until further notice	

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

6.2.4.1, table, under "For design and construction":

In the row for standard "EN 12245:2002", amend the text in column (4) to read "Before 1 January 2015".

After the row for standard "EN 12245:2002", add a new row to read as follows:

EN 12245:2009 +A1:[2011]	Transportable gas cylinders – Fully wrapped composite cylinders	6.2.3.1 and 6.2.3.4	Until further notice	
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In the row for standard "EN 13769:2003 +A1:2005" amend the text in column (4) to read "Before 1 January 2015".

After the row for standard "EN 13769:2003 +A1:2005", add a new row to read as follows:

EN ISO 10961:[2012]	Gas cylinders – Cylinder bundles – Design, manufacture, testing and inspection	6.2.3.1 and 6.2.3.4	Until further notice	
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(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.2.4.2 At the end of the table add the following new rows:

EN 15888:[2011]	Transportable gas cylinders - Cylinder bundles - Periodic inspection and testing			Mandatory from 1 January 2015
EN 1440:2008 +A1:[2012] (except Annexes G and H)	LPG equipment and accessories – Periodic inspection of transportable refillable LPG cylinders			Mandatory from 1 January 2015

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.2.6.4 In the second indent, replace "EN 417:2003" with "EN 417:[2011]".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Chapter 6.5

6.5.1.1.3:

Add a new note to read as follows:

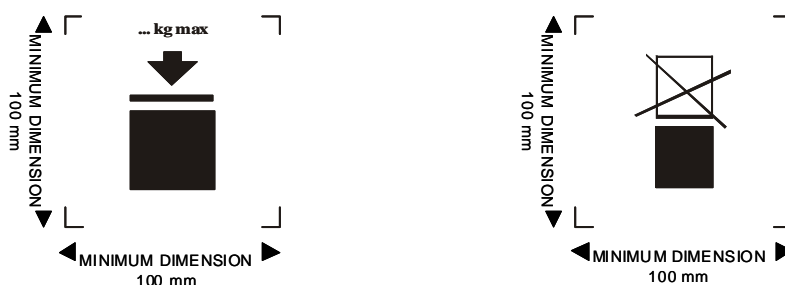
"NOTE: Parties performing inspections and tests in other countries, after the IBC has been put into service, need not be accepted by the competent authority of the country in which the IBC has been approved, but the inspections and tests have to be performed according to the rules specified in the IBC's approval."

(Reference document: ECE/TRANS/WP.15/210, annex II)

6.5.2.1.1 (a) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.5.2.2 Amend the symbols to read as follows:



IBCs capable of being stacked

IBCs NOT capable of being stacked

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.5.6.2.1 Replace "6.5.6.5" with "6.5.6.4".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.5.6.3.5 In the first paragraph, replace "4.1.1.19" with "4.1.1.21".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering)

6.5.6.3.6 In the last sentence, replace "4.1.1.19.2" with "4.1.1.21.2".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 consequential amendment to 4.1.1.20 - renumbering)

Chapter 6.6

6.6.3.1 In the first paragraph, replace "durable and legible markings showing:" with "markings which are durable, legible and placed in a location so as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high and shall show:"

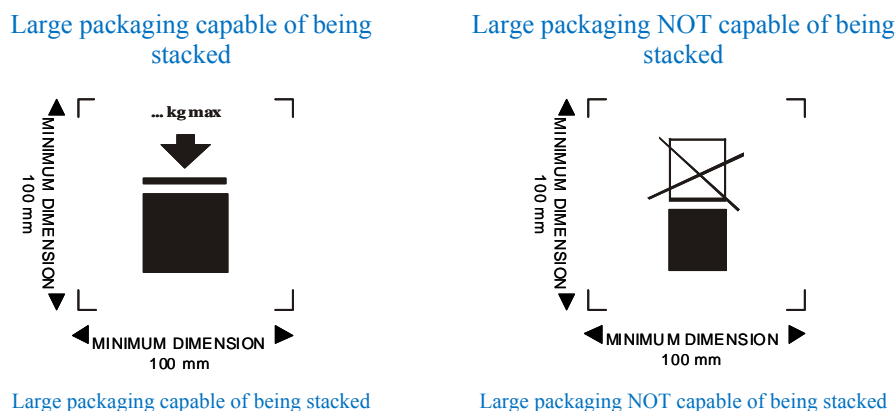
(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.6.3.1 (a) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

Add a new 6.6.3.3 to read as follows:

"6.6.3.3 The maximum permitted stacking load applicable when the large packaging is in use shall be displayed on a symbol as follows:



The symbol shall be not less than 100 mm × 100 mm, be durable and clearly visible. The letters and numbers indicating the mass shall be at least 12 mm high.

The mass marked above the symbol shall not exceed the load imposed during the design type test (see 6.6.5.3.3.4) divided by 1.8."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Chapter 6.7

6.7.2.13.1 After sub-paragraph (e), add the following new sub-paragraph (f):

"(f) The cross sectional flow areas of the spring loaded pressure-relief devices, frangible discs and fusible elements in mm²."

Re-number existing sub-paragraph (f) as sub-paragraph (g).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.2.13.2, 6.7.3.9.2, 6.7.4.8.2 and 6.7.5.6.2 Replace "ISO 4126-1:1991" with "ISO 4126-1:2004 and ISO 4126-7:2004".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.2.20.1 (c) (i) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.7.3 After the heading, insert the following new Note:

"**NOTE:** These requirements also apply to portable tanks intended for the carriage of chemicals under pressure (UN Nos. 3500, 3501, 3502, 3503, 3504 and 3505)."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.3.1 In the definition of *Design reference temperature*, in the second sentence, insert "or liquefied gas propellants of chemicals under pressure" after "non-refrigerated liquefied gas".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.3.1 In sub-paragraph (b) of the definition of *Maximum allowable working pressure*, add a new sub-paragraph (iii) to read as follows:

"(iii) for chemicals under pressure, the MAWP (in bar) given in T50 portable tank instruction for the liquefied gas portion of the propellants listed in T50 in 4.2.5.2.6;"

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.3.5.4 In the first sentence, insert "or chemicals under pressure" after "non-refrigerated liquefied gases".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.3.9.1 and 6.7.4.8.1 After sub-paragraph (d), add the following new sub-paragraph (e):

"(e) The cross sectional flow areas of the spring loaded pressure-relief devices and frangible discs in mm²."

Re-number existing sub-paragraph (e) as sub-paragraph (f).

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.3.16.1 (c) (i) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.7.4.15.1 (c) (i) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

6.7.5.6.1 After sub-paragraph (c), add the following new sub-paragraph (d):

"(d) The cross sectional flow areas of the spring loaded pressure-relief devices and frangible discs in mm²."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.7.5.13.1 (c) (i) Amend the second sentence to read as follows: "This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1, consequential amendment to 6.11.5)

Chapter 6.8

6.8.2.1.19 In the table, replace "Stainless austenitic steels" with "Austenitic stainless steels" and insert a new row to read as follows:

Austenitic-ferritic stainless steels	3 mm	3.5 mm
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(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

6.8.2.1.20 In the left-hand column, at the beginning, insert a reference to footnote * after "or equivalent". The text of the footnote reads as follows:

"* Equivalent measures means measures given in standards referenced in 6.8.2.6."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

6.8.2.2.3 Second paragraph Replace "venting systems" with "breather devices" and replace "shall prevent the immediate passage of flame into the tank by means of a suitable device to prevent the propagation of a flame" with "shall prevent the immediate passage of flame into the shell by means of a suitable protective device".

6.8.2.2.3 Third paragraph Replace "If the protection consists of" with " If the protection device consists of". The two other amendments do not apply to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.2.2.6 Replace "venting system" with "breather device".

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Add a new 6.8.2.3.4 to read as follows:

"6.8.2.3.4 In the case of a modification of a tank with a valid, expired or withdrawn type approval, the testing, inspection and approval are limited to the parts of the tank that have been modified. The modification shall meet the provisions of ADR applicable at the time of the modification. For all parts of the tank not affected by the modification, the documentation of the initial type approval remains valid.

A modification may apply to one or more tanks covered by a type approval.

A certificate approving the modification shall be issued by the competent authority of any Contracting Party to ADR or by a body designated by this authority and shall be kept as part of the tank record.

Each application for an approval certificate for a modification shall be lodged with a single competent authority or body designated by this authority."

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.2.4.3 In the last but one paragraph, replace "venting system" with "breather device".

(Reference documents: ECE/TRANS/WP.15/AC.1/124/Add.1)

Amend 6.8.2.5.2 to read as follows :

6.8.2.5.2 The following particulars shall be inscribed on the tank-vehicle (on the tank itself or on plates) ¹²:

- name of owner or operator;
- unladen mass of the tank-vehicle; and
- maximum permissible mass of the tank-vehicle.

The following particulars shall be inscribed on a demountable tank (on the tank itself or on plates) ¹²:

- name of owner or operator;
- "demountable tank";
- tare of the tank;
- maximum permissible gross mass of the tank.
- for the substances according to 4.3.4.1.3, the proper shipping name of the substance(s) accepted for carriage;
- tank code according to 4.3.4.1.1;
- for substances other than those according to 4.3.4.1.3, the alphanumeric codes of all special provisions TC and TE which are shown in column (13) of Table A of Chapter 3.2 for the substances to be carried in the tank.

The following particulars shall be inscribed on the tank-container (on the tank itself or on plates) ¹²:

- names of owner and of operator;
- capacity of the shell;
- tare;
- maximum permissible gross mass;
- for the substances according to 4.3.4.1.3, the proper shipping name of the substance(s) accepted for carriage;
- tank code according to 4.3.4.1.1;
- for substances other than those according to 4.3.4.1.3, the alphanumeric codes of all special provisions TC and TE which are shown in column (13) of Table A of Chapter 3.2 for the substances to be carried in the tank.

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.2.6.1 In the table, under "For tanks for gases of Class 2":

In the row for standard "EN 12493:2008 (except Annex C)" amend the text in column (4) to read "Between 1 January 2010 and 30 June 2013" and insert "31 December 2014" in column (5).

After the row for standard "EN 12493:2008 (except Annex C)" insert the following new row:

EN 12493:2008+ A1:[2012] (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>	1.2.1, 6.8.1 6.8.2.1 (with the exception of 6.8.2.1.17), 6.8.2.5, 6.8.3.1, 6.8.3.5, 6.8.5.1 to 6.8.5.3	Until 31 December 2013	31 December 2015
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(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.2.6.1 In the table, under "For tanks intended for the carriage of liquid petroleum products and other dangerous substances of Class 3 which have a vapour pressure not exceeding 110 kPa at 50 °C and petrol, and which have no toxic or corrosive subsidiary hazard":

¹² Add the units of measurement after the numerical values.

In the row for standard "EN 13082:2001" amend the text in column (4) to read "Between 1 January 2005 and 30 June 2013" and insert "31 December 2014" in column (5).

After the row for standard "EN 13082:2001" insert the following new row:

EN 13082:2008 +A1:[2011]	Tanks for transport of dangerous goods – Service equipment for tanks – Vapour transfer valve	6.8.2.2 and 6.8.2.4.1	Until further notice	
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(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.3.4.6 Amend to read as follows:

"6.8.3.4.6 By derogation from the requirements of 6.8.2.4.2, the periodic inspections shall take place:

at least after six years

at least after eight years

of service and thereafter at least every 12 years in the case of tanks intended for the carriage of refrigerated liquefied gases.

The intermediate inspections according to 6.8.2.4.3 shall be carried out at least six years after each periodic inspection.

A leakproofness test or an intermediate inspection according to 6.8.2.4.3 may be performed, at the request of the competent authority, between any two successive periodic inspections. "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

6.8.3.5.6 Amend the introductory sentence to read as follows:

"In addition to the particulars prescribed in 6.8.2.5.2, the following shall be inscribed on the tank-vehicle (on the tank itself or on plates)¹²:"

"In addition to the particulars prescribed in 6.8.2.5.2, the following shall be inscribed on the tank-container (on the tank itself or on plates)¹²:"

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

6.8.4 (c) Add a new special provision TA5 to read as follows:

"**TA5** This substance may be carried only in tanks with the tank code S2.65AN(+); the hierarchy in 4.3.4.1.2 is not applicable."

(Reference documents: ECE/TRANS/WP.15/AC.1/122, Annex II)

6.8.4 (d) TT8 At the end, add the following new paragraph:

"Such magnetic particle inspections shall be carried out by a competent person qualified for this method according to EN 473 (Non-destructive testing — Qualification and certification of NDT personnel — General principles)."

(Reference document: ECE/TRANS/WP.15/208, Annex I)

6.8.4 (d) Add a new special provision TT10 to read as follows:

"TT10 The periodic inspections according to 6.8.2.4.2 shall take place:

at least every three years.

at least every two and a half years. "

(Reference document: ECE/TRANS/WP.15/AC.1/124/Add.1)

Chapter 6.11

6.11.1 Add the following new definition:

"Flexible bulk container means a flexible container with a capacity not exceeding 15 m³ and includes liners and attached handling devices and service equipment."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.11.2.3 In the table add the following new row:

Flexible bulk container	BK3
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(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.11.3 In the heading, insert "BK1 or BK2" before "bulk containers".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.11.4 In the heading, insert "BK1 and BK2" before "bulk containers".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Add a new section 6.11.5 to read as follows:

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

6.11.5 Requirements for the design, construction, inspection and testing of flexible bulk containers BK3

6.11.5.1 Design and construction requirements

6.11.5.1.1 Flexible bulk containers shall be sift-proof.

6.11.5.1.2 Flexible bulk containers shall be completely closed to prevent the release of contents.

6.11.5.1.3 Flexible bulk containers shall be waterproof.

6.11.5.1.4 Parts of the flexible bulk container which are in direct contact with dangerous goods:

(a) Shall not be affected or significantly weakened by those dangerous goods;

(b) Shall not cause a dangerous effect e.g. catalysing a reaction or reacting with the dangerous goods; and

(c) Shall not allow permeation of the dangerous goods that could constitute a danger under normal conditions of carriage.

6.11.5.2 Service equipment and handling devices

6.11.5.2.1 Filling and discharge devices shall be so constructed as to be protected against damage during carriage and handling. The filling and discharge devices shall be capable of being secured against unintended opening.

6.11.5.2.2 Slings of the flexible bulk container, if fitted, shall withstand pressure and dynamic forces which can appear in normal conditions of handling and carriage.

6.11.5.2.3 The handling devices shall be strong enough to withstand repeated use.

6.11.5.3 Inspection and testing

6.11.5.3.1 Each flexible bulk container design type shall successfully pass the tests prescribed in this Chapter before being used.

6.11.5.3.2 Tests shall also be repeated after each modification of design type which alters the design, material or manner of construction of a flexible bulk container.

6.11.5.3.3 Tests shall be carried out on flexible bulk containers prepared as for carriage. Flexible bulk containers shall be filled to the maximum mass at which they may be used and the contents shall be evenly distributed. The substances to be carried in the flexible bulk container may be replaced by other substances except where this would invalidate the results of the tests. When another substance is used it shall have the same physical characteristics (mass, grain size, etc.) as the substance to be carried. It is permissible to use additives, such as bags of lead shot, to achieve the requisite total mass of the flexible bulk container, so long as they are placed so that the test results are not affected.

6.11.5.3.4 Flexible bulk containers shall be manufactured and tested under a quality assurance programme which satisfies the competent authority, in order to ensure that each manufactured flexible bulk container meets the requirements of this Chapter.

6.11.5.3.5 *Drop test*

6.11.5.3.5.1 Applicability

For all types of flexible bulk containers, as a design type test.

6.11.5.3.5.2 Preparation for testing

The flexible bulk container shall be filled to its maximum permissible gross mass.

6.11.5.3.5.3 Method of testing

The flexible bulk container shall be dropped onto a target surface that is non-resilient and horizontal. The target surface shall be:

- (a) Integral and massive enough to be immovable;
- (b) Flat with a surface kept free from local defects capable of influencing the test results;
- (c) Rigid enough to be non-deformable under test conditions and not liable to become damaged by the tests; and
- (d) Sufficiently large to ensure that the test flexible bulk container falls entirely upon the surface.

Following the drop, the flexible bulk container shall be restored to the upright position for observation.

6.11.5.3.5.4 Drop height shall be:

Packing group III: 0.8 m

6.11.5.3.5.5 Criteria for passing the test

(a) There shall be no loss of contents. A slight discharge, e.g. from closures or stitch holes, upon impact shall not be considered to be a failure of the flexible bulk container provided that no further leakage occurs after the container has been restored to the upright position;

(b) There shall be no damage which renders the flexible bulk container unsafe to be carried for salvage or for disposal.

6.11.5.3.6 *Top lift test*

6.11.5.3.6.1 Applicability

For all types of flexible bulk containers as a design type test.

6.11.5.3.6.2 Preparation for testing

Flexible bulk containers shall be filled to six times the maximum net mass, the load being evenly distributed.

6.11.5.3.6.3 Method of testing

A flexible bulk container shall be lifted in the manner for which it is designed until clear of the floor and maintained in that position for a period of five minutes.

6.11.5.3.6.4 Criteria for passing the test

There shall be no damage to the flexible bulk container or its lifting devices which renders the flexible bulk container unsafe for carriage or handling, and no loss of contents.

6.11.5.3.7 *Topple test*

6.11.5.3.7.1 Applicability

For all types of flexible bulk containers as a design type test.

6.11.5.3.7.2 Preparation for testing

The flexible bulk container shall be filled to its maximum permissible gross mass.

6.11.5.3.7.3 Method of testing

Flexible bulk container shall be toppled onto any part of its top by lifting the side furthest from the drop edge upon a target surface that is non-resilient and horizontal. The target surface shall be:

- (a) Integral and massive enough to be immovable;
- (b) Flat with a surface kept free from local defects capable of influencing the test results;
- (c) Rigid enough to be non-deformable under test conditions and not liable to become damaged by the tests; and
- (d) Sufficiently large to ensure that the test flexible bulk container falls entirely upon the surface.

6.11.5.3.7.4 For all flexible bulk containers, the topple height is specified as follows:

Packing group III: 0.8 m

6.11.5.3.7.5 Criterion for passing the test

There shall be no loss of contents. A slight discharge, e.g., from closures or stitch holes, upon impact shall not be considered to be a failure of the flexible bulk container provided that no further leakage occurs.

6.11.5.3.8 *Righting test*

6.11.5.3.8.1 Applicability

For all types of flexible bulk containers designed to be lifted from the top or side, as a design type test.

6.11.5.3.8.2 Preparation for testing

The flexible bulk container shall be filled to not less than 95% of its capacity and to its maximum permissible gross mass.

6.11.5.3.8.3 Method of testing

The flexible bulk container, lying on its side, shall be lifted at a speed of at least 0.1 m/s to an upright position, clear of the floor, by no more than half of the lifting devices.

6.11.5.3.8.4 Criterion for passing the test

There shall be no damage to the flexible bulk container or its lifting devices which renders the flexible bulk container unsafe for carriage or handling.

6.11.5.3.9 *Tear test*

6.11.5.3.9.1 Applicability

For all types of flexible bulk containers as a design type test.

6.11.5.3.9.2 Preparation for testing

The flexible bulk container shall be filled to its maximum permissible gross mass.

6.11.5.3.9.3 Method of testing

With the flexible bulk container placed on the ground, a 300 mm cut shall be made, completely penetrating all layers of the flexible bulk container on a wall of a wide face. The cut shall be made at a 45° angle to the principal axis of the flexible bulk container, halfway between the bottom surface and the top level of the contents. The flexible bulk container shall then be subjected to a uniformly distributed superimposed load equivalent to twice the maximum gross mass. The load must be applied for at least fifteen minutes. A flexible bulk container which is designed to be lifted from the top or the side shall, after removal of the superimposed load, be lifted clear of the floor and maintained in that position for a period of fifteen minutes.

6.11.5.3.9.4 Criterion for passing the test

The cut shall not propagate more than 25% of its original length.

6.11.5.3.10 *Stacking test*

6.11.5.3.10.1 Applicability

For all types of flexible bulk containers as a design type test.

6.11.5.3.10.2 Preparation for testing

The flexible bulk container shall be filled to its maximum permissible gross mass.

6.11.5.3.10.3 Method of testing

The flexible bulk container shall be subjected to a force applied to its top surface that is four times the design load-carrying capacity for 24 hours.

6.11.5.3.10.4 Criterion for passing the test

There shall be no loss of contents during the test or after removal of the load.

6.11.5.4 *Test report*

6.11.5.4.1 A test report containing at least the following particulars shall be drawn up and shall be available to the users of the flexible bulk container:

1. Name and address of the test facility;
2. Name and address of applicant (where appropriate);
3. Unique test report identification;
4. Date of the test report;
5. Manufacturer of the flexible bulk container;
6. Description of the flexible bulk container design type (e.g. dimensions, materials, closures, thickness, etc) and/or photograph(s);
7. Maximum capacity/maximum permissible gross mass;
8. Characteristics of test contents, e.g. particle size for solids;
9. Test descriptions and results;
10. The test report shall be signed with the name and status of the signatory.

6.11.5.4.2 The test report shall contain statements that the flexible bulk container prepared as for carriage was tested in accordance with the appropriate provisions of this Chapter and that the use of other containment methods or components may render it invalid. A copy of the test report shall be available to the competent authority.

6.11.5.5 Marking

6.11.5.5.1 Each flexible bulk container manufactured and intended for use according to ADR shall bear markings that are durable, legible and placed in a location so as to be readily visible. Letters, numerals and symbols shall be at least 24 mm high and shall show:

- (a) The United Nations packaging symbol



This symbol shall not be used for any purpose other than certifying that a packaging, a flexible bulk container, a portable tank or a MEGC complies with the relevant requirements in Chapter 6.1, 6.2, 6.3, 6.5, 6.6, 6.7 or 6.11 ;

- (b) The code BK3;
- (c) A capital letter designating the packing group(s) for which the design type has been approved:
- Z for packing group III only;
- (d) The month and year (last two digits) of manufacture;
- (e) The character(s) identifying the country authorizing the allocation of the mark; as indicated by the distinguishing sign for motor vehicles in international traffic;
- (f) The name or symbol of the manufacturer and other identification of the flexible bulk container as specified by the competent authority;
- (g) The stacking test load in kg;
- (h) The maximum permissible gross mass in kg.

Marking shall be applied in the sequence shown in (a) to (h); each element of the marking, required in these subparagraphs, shall be clearly separated, e.g. by a slash or space and presented in a way that ensures that all of the parts of the mark are easily identified.

6.11.5.5.2 *Example of marking*



BK3/Z/11 09
RUS/NTT/MK-14-10
56000/14000".

Chapter 6.12

6.12.3.1.2 Amend to read as follows:

“6.12.3.1.2 For UN Nos. 1942 and 3375, the tank shall meet the requirements of Chapters 4.3 and 6.8 concerning venting systems and, in addition, shall have bursting discs or other suitable means of emergency pressure relief, approved by the competent authority of the country of use.”

(Reference document: ECE/TRANS/WP.15/206)

6.12.3.2.2 Amend the second sentence to read as follows: “For UN Nos. 1942 and 3375, the tank shall meet the requirements of Chapters 4.3 and 6.8 concerning venting systems and, in addition, shall have bursting discs or other suitable means of emergency pressure relief, approved by the competent authority of the country of use.”

(Reference document: ECE/TRANS/WP.15/206)

6.12.4.4 Replace “venting system” with “breather device”.

(Reference documents: ECE/TRANS/WP.15/AC.1/124/Add.1)

Part 7

Chapter 7.3

7.3.2.1 In the introductory sentence, replace "BK1 and BK2" with "BK1, BK2 and BK3". After the description of the meaning of BK1 and BK2, insert:

"BK3: Carriage in flexible bulk containers is permitted".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1 + consequential amendment)

7.3.2.4 After "bulk containers", insert "(code BK2) and flexible bulk containers (code BK3)". At the end, replace "watertight" with "waterproof" after "bulk container".

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Add a new sub-section 7.3.2.9 to read as follows:

"7.3.2.9 *Use of flexible bulk containers*

7.3.2.9.1 Before a flexible bulk container is filled it shall be visually examined to ensure it is structurally serviceable, its textile slings, load-bearing structure straps, body fabric, lock device parts including metal and textile parts are free from protrusions or damage and that inner liners are free from rips, tears or any damage.

7.3.2.9.2 For flexible bulk containers, the period of use permitted for the carriage of dangerous goods shall be two years from the date of manufacture of the flexible bulk container.

7.3.2.9.3 A venting device shall be fitted if a dangerous accumulation of gases may develop within the flexible bulk container. The vent shall be so designed that the penetration of foreign substances is prevented under normal conditions of carriage."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

7.3.3 In special provision VV15, amend the first paragraph to read as follows:

"Carriage in bulk is permitted in closed or sheeted vehicles, closed containers or sheeted large containers with complete walls for solids (substances or mixtures, such as preparations or wastes) containing on an average not more than 1 000 mg/kg of substance to which this UN No is assigned. At no point of the load shall the concentration of this substance or these substances be higher than 10 000 mg/kg."

(Reference document: *ECE/TRANS/WP.15/208, annex I and ECE/TRANS/WP.15/210, annex II*)

Chapter 7.4

7.4.1 In the second sentence, replace "Chapters 4.2 or 4.3" with "Chapters 4.2, 4.3, 4.4 or 4.5 as applicable".

(Reference document: *ECE/TRANS/WP.15/208, Annex I*)

Chapter 7.5

7.5.1.2, 7.5.1.3 At the beginning, insert "Unless otherwise specified in ADR,".

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1*)

7.5.1.3 Transfer the last sentence of 7.5.1.3 at the end of 7.5.1.2.

(Reference document: *ECE/TRANS/WP.15/AC.1/124/Add.1*)

7.5.1.5 Insert "and overpacks" after "packages".

(Reference document: *ECE/TRANS/WP.15/AC.1/124/Add.1*)

7.5.2 Add a new 7.5.2.4 to read as follows:

"7.5.2.4 Mixed loading of dangerous goods packed in limited quantities with any type of explosive substances and articles, except those of Division 1.4 and UN Nos 0161 and 0499, is prohibited."

(Reference document: *ECE/TRANS/WP.15/AC.1/2011/30/Add.1* +
ECE/TRANS/WP.15/AC.1/124/Add.1)

7.5.7.4 After "containers", add "[, tank-containers, portable tanks and MEGCs]".

(Reference document: *ECE/TRANS/WP.15/206*)

Add a new 7.5.7.6 to read as follows:

"7.5.7.6 *Loading of flexible bulk containers*

7.5.7.6.1 Flexible bulk containers shall be carried within a vehicle or container with rigid sides and ends that extend at least two-thirds of the height of the flexible bulk container.

NOTE: *When loading flexible bulk containers in a vehicle or container particular attention shall be paid to the guidance on the handling and stowage of dangerous goods referred to in 7.5.7.1 and to the IMO/ILO/UNECE Guidelines for Packing Cargo Transport Units (CTUs).*

7.5.7.6.2 Flexible bulk containers shall be secured by suitable means capable of restraining them in the vehicle or container in a manner that will prevent any movement during carriage which would change the orientation of the flexible bulk container or cause it to be damaged. Movement of the flexible bulk containers may also be prevented by filling any voids by the use of dunnage or by blocking and bracing. Where restraints such as banding or straps are used, these shall not be over-tightened to cause damage or deformation to the flexible bulk containers.

7.5.7.6.3 Flexible bulk containers shall not be stacked."

(Reference document: ECE/TRANS/WP.15/AC.1/2011/30/Add.1)

Part 8

Chapter 8.1

8.1.4.1:

Amend to read as follows:

"8.1.4.1 The following table shows the minimum provisions for portable fire extinguishers for the inflammability Classes² A, B and C that apply to transport units carrying dangerous goods except for those referred to in 8.1.4.2:

(1) Transport unit maximum permissible mass	(2) Minimum number of fire extinguishers	(3) Minimum total capacity per transport unit	(4) Extinguisher suitable for engine or cab fire. At least one with a minimum capacity of:	(5) Additional extinguisher(s) requirement. At least one extinguisher shall have a minimum capacity of:
≤ 3.5 tonnes	2	4 kg	2 kg	2 kg
> 3.5 tonnes ≤ 7.5 tonnes	2	8 kg	2 kg	6 kg
> 7.5 tonnes	2	12 kg	2 kg	6 kg

The capacities are for dry powder devices (or an equivalent capacity for any other suitable extinguishing agent).

".

(Reference document: ECE/TRANS/WP.15/210, annex II)

Chapter 8.2

8.2.1.4 In the first parenthesis, delete "additional requirement" and in the third parenthesis, delete "special provisions".

(Reference document: ECE/TRANS/WP.15/208, Annex I)

² For the definition of the inflammability classes, see Standard EN 2:1992 Classification of fires.

Chapter 8.5

- S1 In the heading of the requirement, delete “Additional”. In paragraph (1), delete subparagraphs (a) and (b). In subparagraph (c), replace “referred to in (b)” with “defined in 8.2.2.3.4”, add “training” before “course” and delete the numbering of the subparagraph (“(c)”).

(Reference document: ECE/TRANS/WP.15/208, Annex I)

Amend additional requirement S3 to read as follows:

“S3: Special provisions concerning the carriage of infectious substances

For transport units carrying dangerous substances of Class 6.2, only the requirements in column (4) of the table in 8.1.4.1 shall apply. The requirements in 8.3.4 shall not apply.”

(Reference document: ECE/TRANS/WP.15/210, annex II)

- S11 Delete paragraphs (1) and (2). In paragraph (3), replace “referred to in (2)” with “defined in 8.2.2.3.5”, add “training” before “course” and delete the numbering of the subparagraph (“(3)”).

(Reference document: ECE/TRANS/WP.15/208, Annex I)

- S12 In the first sentence, replace “special provision S11” with “the requirement in 8.2.1.4 concerning specialization training course for drivers of vehicles carrying radioactive material”.

(Reference document: ECE/TRANS/WP.15/208, Annex I)

Chapter 8.6

8.6.3.3 At the end, insert:

“, except if the unit is required to be marked in accordance with 3.4.13 as defined in 3.4.14”.

8.6.4 In the table, in the second column, insert the following sentence for C/E, D/E and E:

“Passage forbidden where quantities carried exceed 8 tonnes (total gross mass) per transport unit according to Chapter 3.4.”

(Reference document: ECE/TRANS/WP.15/210, annex II)

Chapter 9.2

9.2.2.6.3 Amend to read as follows:

“9.2.2.6.3 Electrical connections

Electrical connections between motor vehicles and trailers shall have a protection degree IP54 in accordance with IEC 60529 and be designed to prevent accidental disconnection. Connections shall be in conformity with ISO 12098:2004, ISO 7638:2003 and EN 15207:2006 as appropriate.”

(Reference document: ECE/TRANS/WP.15/206)
