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Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)

Twenty-eighth session

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Item 5 (a) of the provisional agenda

Proposals for amendments to the Regulations

annexed to ADN: Work of the RID/ADR/ADN Joint Meeting

Draft amendments relevant for ADN adopted by the Working Party on the Transport of Dangerous Goods (WP.15) and the Joint RID/ADR/ADN meeting in 2104 and 2015 for entry into force on 1 January 2017

Note by the secretariat¹

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Chapter 1.1

1.1.4.2.1 (a) Replace "shall bear markings" by "shall bear marks".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.1.4.2.1 (c) Not applicable to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 1.2

1.2.1 In the definition of "*Unilateral approval*" under "*Approval*", replace "by the competent authority of the first Contracting Party to ADN reached by the consignment" by "by the competent authority of a Contracting Party to ADN".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.2.1 In the definition of "*Vacuum-operated waste tank*", replace "loading and unloading" by "filling and discharging".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.2.1 Add the following new definitions in alphabetical order:

"*Holding time*" means the time that will elapse from the establishment of the initial filling condition until the pressure has risen due to heat influx to the lowest set pressure of the pressure limiting devices (s) of tanks intended for the carriage of refrigerated liquefied gases.

NOTE: For portable tanks, see 6.7.4.1 of ADR.

(Reference document: ECE/TRANS/WP.15/226, Annex I)

"*Loading*" means all actions carried out by the loader, in accordance with the definition of loader;

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

"*Unloading*" means all actions carried out by the unloader, in accordance with the definition of unloader;

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 1.4

1.4.2.1.1(c) Replace "markings" by "marks".

1.4.2.1.1 (e) Amend the text after "empty uncleaned vehicles" to read as follows: "and bulk containers are placarded, marked and labelled in accordance with Chapter 5.3 and that empty uncleaned tanks are closed and present the same degree of leakproofness as if they were full."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

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

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.1.1 (c) Delete ", when loading dangerous goods in a vehicle...wagon, or a large or small container,".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.1.1 (d) Amend the text after "requirements concerning" to read as follows: "placarding, marking and orange-coloured plates conforming to Chapter 5.3."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.3 (h) Amend to read as follows: "(h) he shall, in preparing the dangerous goods for carriage, ensure that the placards, marks, orange-coloured plates and labels are affixed in accordance with Chapter 5.3."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.7 Delete the Note after the heading.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.7.1 (c) At the end, add "and handling:"

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.4.3.7.1 (f) Amend the end to read as follows: "...no longer display the placards, marks and orange-coloured plates that had been displayed in accordance with Chapter 5.3."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 1.6

1.6.1.1 Amend "30 June 2015" to read: "30 June 2017".

Amend "31 December 2014" to read: "31 December 2016".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.6.1.15 Not applicable to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.6.1.20, 1.6.1.28, 1.6.1.30, 1.6.1.31, 1.6.1.32 Delete and insert "(Deleted)".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.6.1.26 Not applicable to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Add the following new transitional measures:

1.6.1.35 *(Reserved)*.

1.6.1.36 *(Reserved)*.

"1.6.1.37 Contracting Parties may continue to issue training certificates for dangerous goods safety advisers conforming to the model applicable until 31 December 2016, instead of those conforming to the requirements of 1.8.3.18 applicable from 1 January 2017, until 31 December 2018. Such certificates may continue in use to the end of their five year validity."

(Reference document: ECE/TRANS/WP.15/AC.1/138, annex II)

Chapter 1.8

1.8.3.2 In paragraph (b), before "loading or unloading", insert: "packing, filling," (twice).

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.3 In the third, fifth, sixth and ninth indent of the third sub-paragraph, before "loading or unloading", insert "packing, filling," (four times). In the tenth and twelfth indent, before "loading and unloading", insert "packing, filling," (twice).

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.6 Before "loading or unloading", insert "packing, filling,"

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.9 After "carriage", insert "packing, filling, loading or unloading".

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.10 At the end of the second indent, add: ", including, if necessary, the infrastructure and organisation of electronic examinations in accordance with 1.8.3.12.5, if these are to be carried out;"

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.8.3.11 (b) In the third indent, replace "orange plates marking" by "orange-coloured plate marking" and "orange plates" by "orange-coloured plates".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.8.3.11 (b) In the tenth indent, between the brackets, before "loading and unloading", insert "packing, filling,". In the eleventh indent, before "loading and after unloading", insert: "packing, filling,".

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.12.2 Amend to read as follows:

"1.8.3.12.2 The competent authority or an examining body designated by the competent authority shall invigilate every examination. Any manipulation and deception shall be ruled out as far as possible. Authentication of the candidate shall be ensured. The use in the written test of documentation other than international or national regulations is not permitted. All examination documents shall be recorded and kept as a print-out or electronically as a file."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

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

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Add a new 1.8.3.12.5 to read as follows:

"1.8.3.12.5 Written examinations may be performed, in whole or in part, as electronic examinations, where the answers are recorded and evaluated using electronic data processing (EDP) processes, provided the following conditions are met:

- (a) The hardware and software shall be checked and accepted by the competent authority or by an examining body designated by the competent authority;

- (b) Proper technical functioning shall be ensured. Arrangements as to whether and how the examination can be continued shall be made for a failure of the devices and applications. No aids shall be available on the input devices (e.g. electronic search function), the equipment provided according to 1.8.3.12.3 shall not allow the candidates to communicate with any other device during the examination;
- (c) Final inputs of each candidate shall be logged. The determination of the results shall be transparent."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

1.8.3.18 In the eighth entry ("Valid until ..."), before "loading or unloading", insert: "packing, filling,".

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

1.8.3.18 Delete the last 2 lines of the model certificate.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 2.1

2.1.3.5.5, Footnote 2 Amend as follows:

Delete "(replaced by the Directive 2006/12/EC of the European Parliament and of the Council (Official Journal of the European Union No. L 114 of 27 April 2006, page 9))".

At the end, insert: "; and Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (Official Journal of the European Union No. L312 of 22 November 2008, pages 3-30)".

(Reference document: ECE/TRANS/WP.15/228, annex I)

Chapter 2.2

2.2.52.1.17 In the Note, amend "Manual of Tests and Criteria, Part II, Chapter 20 and sub-section 28.4" to read "Manual of Tests and Criteria, Part II, Section 20 and test series E in Section 25".

A (Reference document: ECE/TRANS/WP.15/228, annex II)

2.2.62.1.1 Amend Note 1 to read as follows:

"NOTE 1: *Genetically modified microorganisms and organisms, biological products, diagnostic specimens and intentionally infected live animals shall be assigned to this Class if they meet the conditions for this Class.*

The carriage of unintentionally or naturally infected live animals is subject only to the relevant rules and regulations of the respective countries of origin, transit and destination."

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

2.2.62.1.12.1 Delete footnote 6. Renumber the following footnotes accordingly.

Add a new note at the end to read as follows:

"NOTE: *The approval of the competent authorities shall be issued on the basis of the relevant rules for the carriage of live animals, taking into consideration dangerous goods*

aspects. The authorities that are competent to lay down these conditions and rules for approval shall be regulated at national level.

If there is no approval by a competent authority of a Contracting Party to ADN, the competent authority of a Contracting Party to ADN may recognize an approval issued by the competent authority of a country that is not a Contracting Party to ADN.

Rules for the carriage of livestock are, for example, contained in Council Regulation (EC) No 1/2005 of 22 December 2004 on the protection of animals during transport (Official Journal of the European Community No L 3 of 5 January 2005) as amended."

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

2.2.9.1.2 In the M2 entry, replace "apparatus" by "articles".

2.2.9.1.5 In the title and in the text, replace "apparatus" by "articles" wherever it appears (4 times)

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

2.2.9.1.11 For Note 2, amend the text of footnote 13 to read as follows:

"See Part C of Directive 2001/18/EC of the European Parliament and of the Council on the deliberate release into the environment of genetically modified organisms and repealing Council Directive 90/220/EEC (Official Journal of the European Communities, No. L 106, of 17 April 2001, pp 8-14) and Regulation (EC) No. 1829/2003 of the European Parliament and of the Council on genetically modified food and feed (Official Journal of the European Union, No. L 268, of 18 October 2003, pp 1-23), which set out the authorization procedures for the European Union."

Insert a new Note 3 to read as follows and renumber existing Note 3 as Note 4:

"NOTE 3: Genetically modified live animals which, in accordance with the current state of scientific knowledge, have no known pathogenic effect on humans, animals and plants and are carried in receptacles that are suitable for safely preventing both the escape of the animals and unauthorized access to them, are not subject to the provisions of ADN. The provisions specified by the International Air Transport Association (IATA) for air transport "Live Animals Regulations, LAR" can be drawn on as guidelines for suitable receptacles for the transport of live animals."

(Reference document: ECE/TRANS/WP.15/AC.1/138, Annex II)

2.2.9.3 In M11, insert the following new entries:

"3166 VEHICLE, FLAMMABLE GAS POWERED or 3166 VEHICLE, FLAMMABLE LIQUID POWERED or 3166 VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED or 3166 VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED

3171 BATTERY POWERED VEHICLE or 3171 BATTERY POWERED EQUIPMENT"

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 3.2, Table A

For UN No. 1845 Replace "NOT SUBJECT TO ADN - When used as a coolant, see 5.5.3" by "NOT SUBJECT TO ADN except for 5.5.3".

A (Reference document: ECE/TRANS/WP.15/228, annex I)

Amend the entries for UN Nos. 3166 and 3171 to read as follows:

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a) to (13)
3166	VEHICLE, FLAMMABLE GAS POWERED or VEHICLE, FLAMMABLE LIQUID POWERED or VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED or VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED	9	M11			312 385 666 667	
3171	BATTERY POWERED VEHICLE or BATTERY POWERED EQUIPMENT	9	M11			240 665 666	

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

For UN Nos. 3257 In column (6), insert "668".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 3.2, 3.2.2, Table B

Delete existing entries corresponding to:

Battery-powered vehicle, Battery-powered equipment, Engine, internal combustion or Vehicle, flammable gas powered, Vehicle, flammable liquid powered, Engine, fuel cell, flammable gas powered, Engine, fuel cell, flammable liquid powered, Vehicle, fuel cell, flammable gas powered, Vehicle, fuel cell, flammable liquid powered.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Amend the entry for "URANIUM HEXAFLUORIDE, RADIOACTIVE MATERIAL, EXCEPTED PACKAGE" to read as follows:

URANIUM HEXAFLUORIDE, RADIOACTIVE MATERIAL, EXCEPTED PACKAGE, less than 0.1 kg per package, non-fissile or fissile-excepted	3507	6.1
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(Document de référence: ECE/TRANS/WP.15/AC.1/140/Add.1)

Add the following new entries in alphabetical order:

VEHICLE, FLAMMABLE GAS POWERED	3166	9
VEHICLE, FLAMMABLE LIQUID POWERED	3166	9
VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED	3166	9
VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED	3166	9
BATTERY POWERED VEHICLE	3171	9
BATTERY POWERED EQUIPMENT	3171	9

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 3.3

SP 172 (b) Replace "vehicles or containers" by "cargo transport units".

SP 216 Replace "vehicle, wagon or container" by "or cargo transport unit".

SP 217 Replace "vehicle, wagon or container" by "or cargo transport unit".

SP 218 Replace "vehicle, wagon or container" by "or cargo transport unit".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 240 Amend to read as follows:

"240 This entry 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 carried with these batteries installed. Lithium batteries shall meet the requirements of 2.2.9.1.7, except as otherwise provided for in special provision 666.

For the purpose of this special provision, 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, trucks, locomotives, bicycles (pedal cycles with an electric motor) and other vehicles of this type (e.g. self-balancing vehicles or vehicles not equipped with at least one seating position), wheel chairs, lawn tractors, self-propelled farming and construction equipment, boats and aircraft. This includes vehicles carried in a packaging. In this case some parts of the vehicle may be detached from its frame to fit into the packaging.

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 assigned to 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, carried with the battery(ies) installed shall be assigned to 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 assigned to the entries UN 3166 VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED or UN 3166 VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED, as appropriate.

Vehicles may contain other dangerous goods than batteries (e.g. fire extinguishers, compressed gas accumulators or safety devices) required for their functioning or safe operation without being subject to any additional requirements for these other dangerous goods, unless otherwise specified in ADN."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1 and ST/SG/AC.10/1/Rev.19, Chapter 3.3, special provision 240)

SP 295 Not applicable to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 312 Amend to read as follows: "Vehicles powered by a fuel cell engine shall be assigned to UN No. 3166 VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED or UN No. 3166 VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED, as appropriate. These entries include hybrid electric vehicles powered by both a fuel cell and an internal combustion engine with wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, carried with the battery(ies) installed.

Other vehicles which contain an internal combustion engine shall be assigned to the entries UN 3166 VEHICLE, FLAMMABLE GAS POWERED or UN 3166 VEHICLE, FLAMMABLE LIQUID POWERED, as appropriate. These entries include hybrid electric vehicles powered by both an internal combustion engine and wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, carried with the battery(ies) installed.

Lithium batteries shall meet the requirements of 2.2.9.1.7, except as otherwise provided for in special provision 667."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1 and ST/SG/AC.10/1/Rev.19, Chapter 3.3, special provision 312)

SP 335 Replace "vehicle, wagon or container" by "cargo transport unit", 3 times.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 339 Not applicable to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 356 Delete "installed in vehicles, wagons, vessels or aircraft or in completed components or".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 376 Amend the end of the last sentence to read as follows: "...shall not be carried except under conditions approved by the competent authority of any ADN Contracting Party who may also recognize an approval granted by the competent authority of a country which is not a ADN 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."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 529 Amend the last sentence to read "Mercurous chloride (calomel) is a substance of Class 6.1 (UN No. 2025)."

(Reference document: ECE/TRANS/WP.15/228, annex II)

SP 581 Amend to read as follows:

"581 This entry covers mixtures of propadiene with 1 to 4% methylacetylene as well as the following mixtures:

Mixture	Content, % by volume				Permitted technical name for purposes of 5.4.1.1
	Methylacetylene and propadiene, not more than	Propane and propylene, not more than	C ₄ -saturated hydrocarbons, not less than		
P1	63	24	14	"Mixture P1"	
P2	48	50	5	"Mixture P2"	

"

(Reference document: ECE/TRANS/WP.15/228, annex I)

SP 633 Replace "marking" by "mark", twice.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 653 In the last indent, replace "marking" by "mark".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 655 In the first sentence, replace "Directive 97/23/EC⁴" by "Directive 97/23/EC⁴ or Directive 2014/68/EU⁵". At the end of the second sentence, add "or Directive 2014/68/EU".

Add a new footnote 5 to read as follows: "⁵ Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of pressure equipment (PED) (Official Journal of the European Union No. L 189 of 27 June 2014, p. 164 - 259)."

Renumber existing footnotes accordingly.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

SP 658 (b) Insert "or large container" after "vehicle".

A (Reference document: ECE/TRANS/WP.15/228, annex I)

SP 660 (f) In the last sentence, replace "markings" by "marks".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.3 Insert new special provisions as follows:

"385 This entry applies to vehicles powered by flammable liquid or gas internal combustion engines or fuel cells.

Hybrid electric vehicles powered by both, an internal combustion engine and wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, carried with the batteries installed shall be assigned to this entry. Vehicles powered by wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, carried with the batteries installed, shall be assigned to the entry UN No. 3171 BATTERYPOWERED VEHICLE (see special provision 240).

For the purpose of this special provision, vehicles are self-propelled apparatus designed to carry one or more persons or goods. Examples of such vehicles are cars, motorcycles, trucks, locomotives, scooters, three- and four-wheeled vehicles or motorcycles, lawn tractors, self-propelled farming and construction equipment, boats and aircraft.

Dangerous goods such as batteries, air bags, fire extinguishers, compressed gas accumulators, safety devices and other integral components of the vehicle that are necessary for the operation of the vehicle or for the safety of its operator or passengers, shall be securely installed in the vehicle and are not otherwise subject to ADN. However, lithium batteries shall meet the requirements of 2.2.9.1.7, except as otherwise provided for in special provision 666."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1 and ST/SG/AC.10/1/Rev.19, Chapter 3.3, special provision 385)

Consequential amendments:

Replace "378-499 (*Reserved*)" by "378-384 (*Reserved*)". After special provision 385, insert "387-499 (*Reserved*)".

"665 (*Reserved*)".

"666 Vehicles assigned to UN No. 3166 or UN No. 3171 and battery powered equipment assigned to UN 3171 in conformity with special provisions 240, 312 and 385, as well as any dangerous goods they contain that are necessary for their operation or the operation of their equipment, when carried as a load, are not subject to any other provisions of ADN, provided the following conditions are met:

- (a) For liquid fuels, any valves between the engine or equipment and the fuel tank shall be closed during carriage unless it is essential for the equipment to remain operational. Where appropriate, the vehicles shall be loaded upright and secured against falling;
- (b) For gaseous fuels, the fuel cock between the gas tank and engine shall be closed and the electric contact open;
- (c) Metal hydride storage systems shall be approved by the competent authority of the country of manufacture. If the country of manufacture is not a

contracting party to ADN the approval shall be recognized by the competent authority of a contracting party to ADN;

- (d) The provisions of (a) and (b) do not apply to vehicles which are empty of liquid or gaseous fuels,

NOTE 1: *A vehicle is considered to be empty of liquid fuel when the liquid fuel tank has been drained and the vehicle cannot be operated due to a lack of fuel. Vehicle components such as fuel lines, fuel filters and injectors do not need to be cleaned, drained or purged to be considered empty of liquid fuels. In addition, the liquid fuel tank does not need to be cleaned or purged.*

NOTE 2: *A vehicle is considered to be empty of gaseous fuels when the gaseous fuel tanks are empty of liquid (for liquefied gases), the pressure in the tanks does not exceed 2 bar and the fuel shut-off or isolation valve is closed and secured."*

Footnote * does not apply to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

"667 (a) The requirements of 2.2.9.1.7 (a) do not apply when pre-production prototype lithium cells or batteries or lithium cells or batteries of a small production run, consisting of not more than 100 cells or batteries, are installed in the vehicle, engine or machinery;

(b) The requirements of 2.2.9.1.7 do not apply to lithium cells or batteries installed in damaged or defective vehicles, engine or machinery. In such cases the following conditions shall be met:

- (i) If the damage or defect has no significant impact on the safety of the cell or battery, damaged and defective vehicles, engines or machinery, may be carried under the conditions defined in special provisions 363 or 666, as appropriate;
- (ii) If the damage or defect has a significant impact on the safety of the cell or battery, the lithium cell or battery shall be removed and carried according to special provision 376.

However if it is not possible to safely remove the cell or battery or it is not possible to verify the status of the cell or battery, the vehicle, engine or machinery may be towed or carried as specified in (i)."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

"668 Elevated temperature substances for the purpose of applying road markings are not subject to the requirements of ADN, provided that the following conditions are met:

- (a) They do not fulfil the criteria of any class other than Class 9;
- (b) The temperature of the outer surface of the boiler does not exceed 70 °C;
- (c) The boiler is closed in such a way that any loss of product is prevented during carriage;
- (d) The maximum capacity of the boiler is limited to 3 000 l."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 3.4

3.4.7 In the heading, replace "Marking for" by "Marking of".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.8 In the heading, replace "Marking for" by "Marking of".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.8.1 The amendment does not apply to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.13 (a) Amend the end of the second sentence to read as follows: "...and the marks in accordance with 3.4.15."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.13 (b) Amend the end of the first paragraph to read as follows: "...and the marks in accordance with 3.4.15.". In the second paragraph, replace "marking affixed to the container is" by "marks affixed to the container are" and at the end, replace "markings" by "marks".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.14 Replace "Markings" by "The marks".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

3.4.15 Amend to read as follows:

"3.4.15 The marks specified in 3.4.13 shall be the same as the one required in 3.4.7, except that their minimum dimensions shall be 250 mm x 250 mm. These marks shall be removed or covered if no dangerous goods in limited quantities are carried."

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 5.2

5.2.1.6 In the last paragraph, replace "These marks" by "These particulars" and replace "marking" by "mark".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 5.3

5.3.1 Insert a new 5.3.1.1.4 to read as follows:

"5.3.1.1.4 For Class 9 the placard shall correspond to the label model No. 9 as in 5.2.2.2.2; label model No. 9A shall not be used for placarding purposes."

Renumber existing paragraphs accordingly.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

5.3.2.1.8 Replace "Orange-coloured marking" by "Orange-coloured plates".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 5.4

5.4.1.1.1 (c) Insert a new third indent as follows:

"– for lithium batteries of UN numbers 3090, 3091, 3480 and 3481: the Class number "9";".

Amend the beginning of the new fourth indent (former third indent) to read:

"for other substances and articles:".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

5.4.1.1.6.2.1 Amend last paragraph to read as follows:

"In addition, in such a case

- (a) if the dangerous goods last loaded are goods of Class 2, the information prescribed in 5.4.1.1.1 (c) may be replaced by the number of the class "2".
- (b) if the dangerous goods last loaded are goods of Classes 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 8 or 9, the information of the goods last loaded, as described in 5.4.1.1.1 (c) may be replaced by the words " WITH RESIDUES OF [...]" followed by the class(es) and subsidiary risk(s) corresponding to the different residues, in the class numbering order.

Example: Empty packagings, uncleaned, having contained goods of Class 3 carried together with empty packagings, uncleaned, having contained goods of Class 8 with a Class 6.1 subsidiary risk may be referred to in the transport document as:

"EMPTY PACKAGINGS, WITH RESIDUES OF 3, 6.1, 8".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

5.4.1.2.2(c) Amend to read as follows:

"(c) (Reserved)".

(Reference document: ECE/TRANS/WP.15/226, Annex I)

5.4.1.2.2(d) Amend to read as follows:

"(d) In the case of tank-containers carrying refrigerated liquefied gases the consignor shall enter in the transport document the date (or time) by which the actual holding time will be exceeded."

"End of holding time: (DD/MM/YYYY)".

(Reference document: ECE/TRANS/WP.15/226, Annex I as amended by ECE/TRANS/WP.15/AC.1/138, annex II)

5.4.3.4 On page 3 of the instructions in writing, in the line for danger label model No. 9, insert the new danger label model No. 9A next to label No. 9".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

5.4.3 Amend the text of Note 2 on page 3 of the model of Instructions in writing as follows: replace "above" by "in column (3) of the table".

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Chapter 5.5

5.5.3.1.1 Amend to read as follows:

"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, except for the carriage of dry ice (UN No. 1845). When they are carried as a consignment, these substances shall be carried under the relevant entry of Table A of Chapter 3.2 in accordance with the associated conditions of carriage.

For UN No. 1845, the conditions of carriage specified in this section, except 5.5.3.3.1, apply for all kinds of carriage, as a coolant, conditioner, or as a consignment. For the carriage of UN No. 1845, no other provisions of ADN apply."

A (Reference document: ECE/TRANS/WP.15/228, annex I)

5.5.3.1.5 Amend the end to read as follows:

"...duration of the journey, the types of containment to be used and the gas concentration limits given in the note to 5.5.3.3.3."

A (Reference document: ECE/TRANS/WP.15/228, annex I)

5.5.3.3.3 Amend to read as follows:

"5.5.3.3.3 Packages containing a coolant or conditioner shall be carried in well ventilated vehicles and containers. Marking according to 5.5.3.6 is not required in this case.

Ventilation is not required, and marking according to 5.5.3.6 is required, if:

- gas exchange between the load compartment and the driver's cabin is prevented; or
- the load compartment is insulated, refrigerated or mechanically refrigerated equipment, for example as defined in the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP) where this requirement is fulfilled.

NOTE: *In this context "well ventilated" means there is an atmosphere where the carbon dioxide concentration is below 0.5% by volume and the oxygen concentration is above 19.5% by volume."*

(Reference document: ECE/TRANS/WP.15/228, annex I)

5.5.3.6.1 Amend to read as follows:

"5.5.3.6.1 Vehicles and containers containing dangerous goods used for cooling or conditioning purposes that are not well ventilated 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 well ventilated to remove harmful concentrations of coolant or conditioner; and
- (b) The cooled or conditioned goods have been unloaded.

As long as the vehicle or container is marked, the necessary precautions have to be taken before entering it. The necessity of ventilating through the cargo doors or other means (e.g. forced ventilation) has to be evaluated and included in training of the involved persons."

(Reference document: ECE/TRANS/WP.15/228, annex I)

5.5.3.6.2 The amendment does not apply to the English text.

(Reference document: ECE/TRANS/WP.15/AC.1/140/Add.1)

Corrections to ADN

1.8.6.4.1 (twice), 1.8.6.8 (twice)

Not applicable to English

(Reference document: ECE/TRANS/WP.15/226, Annex I)

Chapter 2.2, 2.2.7.2.4.1.3 (c)

Not applicable to English

(Reference document: ECE/TRANS/WP.15/226, Annex I)

Chapter 5.2, 5.2.1.7.5

For 5.1.5.2.1, 6.4.22.1 to 6.4.22.4, 6.4.23.4 to 6.4.23.7 and 6.4.24.2 read 1.6.6.2.1, 5.1.5.2.1, 6.4.22.1 to 6.4.22.4 and 6.4.23.4 to 6.4.23.7

(Reference document: ECE/TRANS/WP.15/226, Annex I)

Chapter 5.3, 5.3.1.7.1

Not applicable to English

(Reference document: ECE/TRANS/WP.15/226, Annex I)

Chapter 5.5, 5.5.3.7.1

Not applicable to English

(Reference document: ECE/TRANS/WP.15/226, Annex I)
